Dual Enrollment Beyond Your Boundaries: Virtual and Hybrid Innovations by State Universities

Presented by:
IBHE
Illinois Tech (IIT)
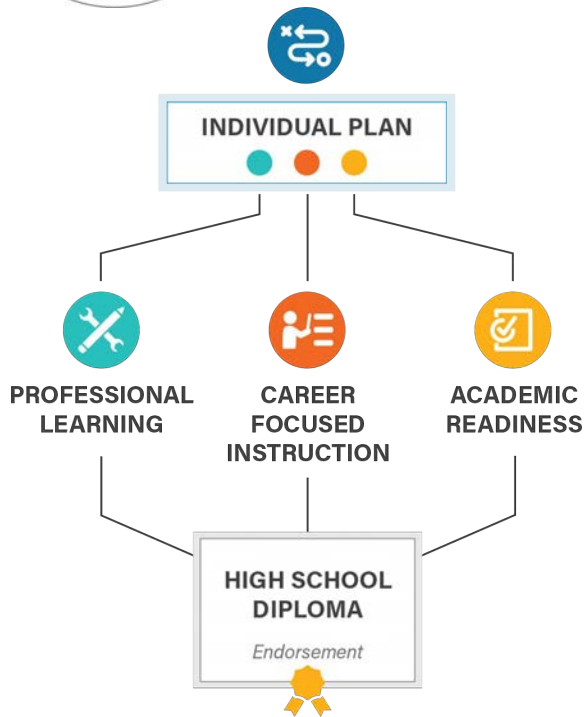Illinois Math and Science Academy

HB 3296/ Public Act 102-0917

Advancing on the PWR Act

Key Takeaway: Many more districts will embark on offering CCPE by Fall 2025

- Districts serving grades 6-12 must elect into or opt out of implementing a local form of PaCE by July 2025
- Districts serving grades 9-12 must elect into or opt out of offering CCPE by July 2025
  - 1 endorsement for Class of '27
  - 2 for Class of '29
  - 3 for Class of '31 (if school has >350 students in 9-12)
- State agencies are responsible for updating and providing resources that will support implementation of PaCE and CCPE

ILLINOIS EDUCATION AND CAREER SUCCESS NETWORK

College and Career Pathway Endorsement Framework

POSTSECONDARY AND WORKFORCE READINESS · EXPECTATIONS · PATHWAYS · READINESS ·

INDIVIDUAL PLAN
- PROFESSIONAL LEARNING
- CAREER FOCUSED INSTRUCTION
- ACADEMIC READINESS

HIGH SCHOOL DIPLOMA
Endorsement

INDIVIDUAL PLAN

Each student completing an endorsement must have an individualized plan, which includes college planning linked to early understanding of career goals, financial aid, resume, and personal statement.

PROFESSIONAL LEARNING

Awareness, exploration, and preparation activities that provide opportunities for students to interact with adults in their workplace

9th	10th	11th	12th
At least 2 career exploration activities or 1 intensive experience		60 cumulative hours of paid or credit supervised career development experience with a professional skills assessment	
At least 2 team-based challenges with adult mentoring			

Through these experiences, a student gains essential employability and technical competencies in their identified sector.

CAREER-FOCUSED INSTRUCTIONAL SEQUENCE

Two years of secondary coursework, or equivalent competencies, that articulate to a postsecondary credential with labor market value. Must include at least 6 hours of early college credit.

9th	10th	11th	12th
Orientation / Introduction			
	Skill Development		
			Capstone / Advanced Courses

ACADEMIC READINESS

Ready for non-remedial coursework in reading and math by high school graduation through criteria defined by district and local community college

Pathway Endorsements Statewide

Since 2017, EdSystems has sought out districts willing to implement Illinois' innovative College and Career Pathway Endorsements system. EdSystems worked with ISBE to create the district pathway approval process and rulemaking processes.

There are now **220+ school districts** seeking to implement Endorsements.

- Urban, suburban, and rural
- Traditional, CBE, CTE, and pathway districts

1,072 students in the Class of 2023 earned Endorsements.

>> Recent blog post highlighting CCPE progress

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Section 1: Illinois Board of Higher Education (IBHE)

Dual Credit Definition and Legislation

- An instructional arrangement where an academically qualified high school student enrolls in a college-level course and, upon successful course completion, concurrently earns both college credit and high school credit.

- The Dual Credit Quality Act (110 ILCS 27/1 et seq.) was enacted in 2010 to accomplish the following:
  1. Reduce college costs.
  2. Speed time to degree completion.
  3. Improve the curriculum for high school students and the alignment of the curriculum with college and workplace expectations.
  4. Facilitate the transition between high school and college.
  5. Enhance communication between high schools and colleges.
  6. Offer opportunities for improving degree attainment for underserved student populations.

  Source: P.A. 96-194, eff. 1-1-10

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Dual Credit Enrollment at Community Colleges in Illinois

- Currently, all 48 community colleges in Illinois offer dual credit courses.
- Community colleges account for the majority of dual credit enrollment in Illinois.
- During fiscal year 2023, a total of 82,602 individual (i.e., "unduplicated") high school students enrolled in one or more community college dual credit courses.
- One in five students (20.1 percent) taking one or more Illinois community college credit courses was a high school dual credit student.
- Illinois community colleges offered a total of 14,638 dual credit courses in fiscal year 2023, which was an increase of 8.1 percent from the previous year.
- Annual dual credit enrollments increased 9.4 percent compared to the previous year.
- High school students who took dual credit courses have substantially higher community college graduation rates and advancement rates than those students who did not enroll in dual credit coursework.

Source: Illinois Community College Board (ICCB)

Dual Credit Enrollment at 4-Year Institutions in Illinois

<u>Fiscal Year 2023</u>

IBHE-Approved Dual Credit Institutions
- 36 colleges and universities:
    - 19 private institutions
    - 8 out-of-state institutions
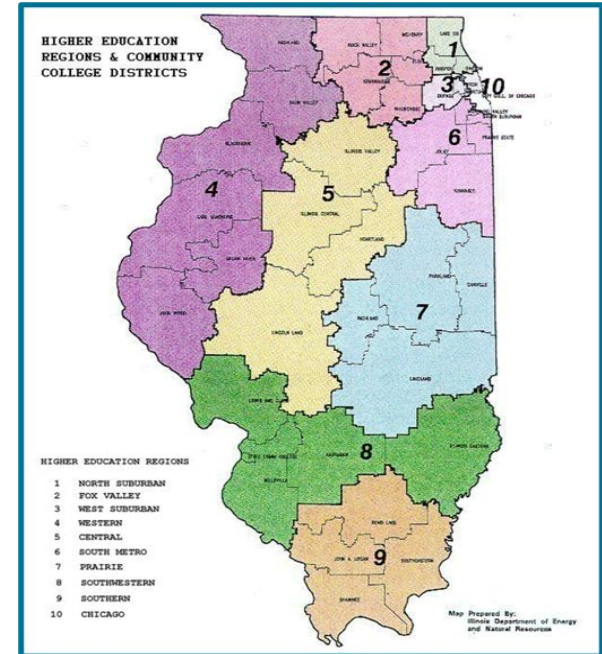   - 9 public institutions

Course Modality
- Most dual credit courses were offered in person.
- 9 institutions reported offering dual credit courses online.
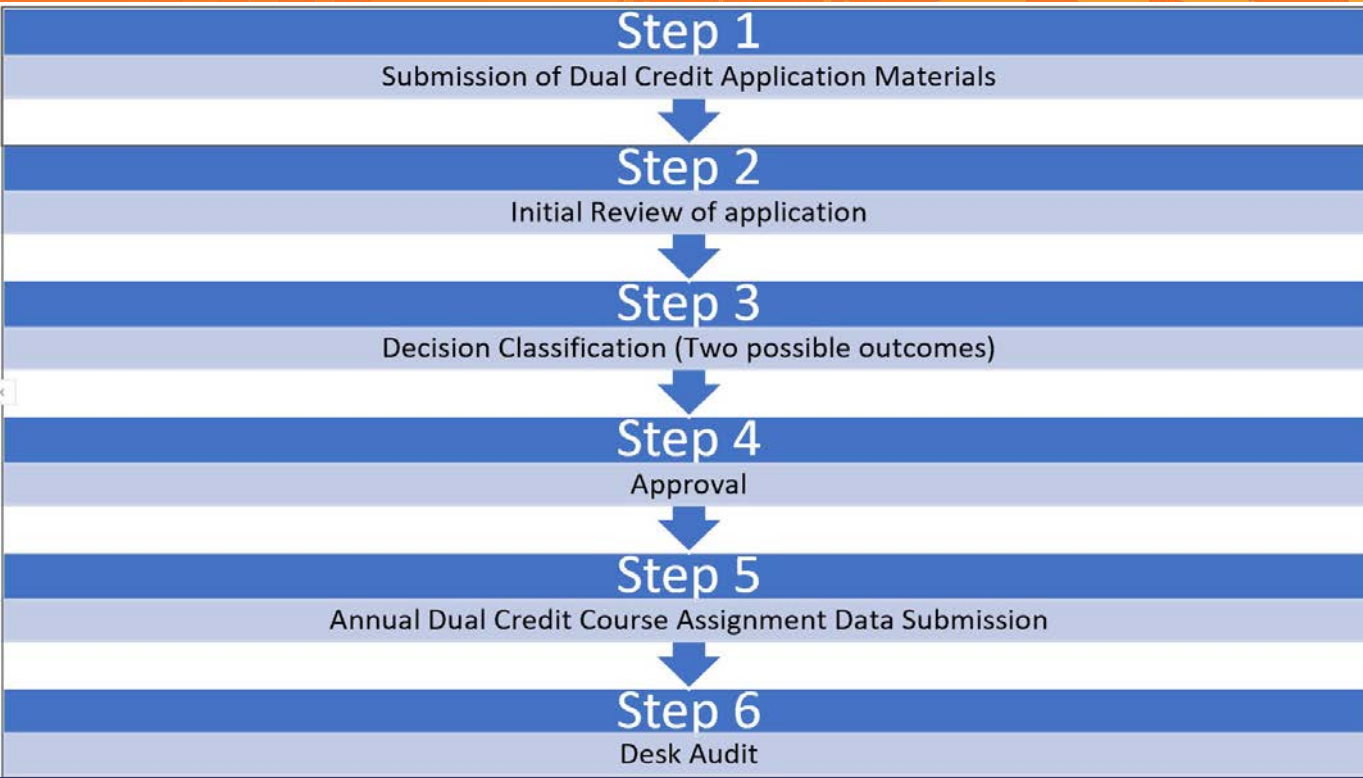
Location
- Top 3 regions of dual credit offerings (based on high school partnerships): North Suburban, Chicago, South Metropolitan

Dual Credit Authorization Requirements

- Per 23 Illinois Administrative Code Section 1009.30, *operating authority is required in the higher education region in which dual credit coursework will be offered*.
- An institution must seek approval from IBHE to operate within a specific region. Operating authority includes dual credit courses offered to high school students in the specified region. It also allows institutions to offer dual credit courses at partnering high schools.
- There are 10 different regions within the state (see IBHE Region Tool Finder).
- Operating authority must be sought for each desired region.

HIGHER EDUCATION REGIONS & COMMUNITY COLLEGE DISTRICTS

HIGHER EDUCATION REGIONS
1 NORTH SUBURBAN
2 FOX VALLEY
3 WEST SUBURBAN
4 WESTERN
5 CENTRAL
6 SOUTH METRO
7 PRAIRIE
8 SOUTHWESTERN
9 SOUTHERN
10 CHICAGO

Map Prepared By:
Illinois Department of Energy and Natural Resources

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Dual Credit Authorization Process

Step 1
Submission of Dual Credit Application Materials

Step 2
Initial Review of application

Step 3
Decision Classification (Two possible outcomes)

Step 4
Approval

Step 5
Annual Dual Credit Course Assignment Data Submission

Step 6
Desk Audit

DUAL CREDIT

For more information about the IBHE Dual Credit Authorization Process,
visit https://www.ibhe.org/dualcredit.html or contact us at: dualcredit@ibhe.org.

Section 2: Illinois Tech

ILLINOIS EDUCATION AND CAREER
SUCCESS NETWORK

Our Campus, Our Community, Our Student Life

PURPOSE STATEMENT To liberate the collective power of difference to advance technology and progress for all.

8,500+
Undergraduates & Graduate Students

170+
Student organizations

50+ Majors

70+ Minors

10+ Interdisciplinary Majors

1:13
Faculty to Student Ratio

90+
Counties represented on campus by Diverse International students

17
NCAA Division III teams
- Illinois Tech Esports
- Intramural athletics and fitness

Illinois Tech – Economic Mobility Enhancement

U.S. NEWS & WORLD REPORT

#98 in the U.S. (#127 in 2023) ↑**29**

#29 Best Value (#44 in 2023) ↑**15**

WALL STREET JOURNAL

#1 in Illinois (#5 in 2022)* ↑**4**

#23 in the U.S. (#107 in 2022) ↑**84**

#1 in Illinois for Salary Impact**

#16 in the U.S. for Salary Impact

*no rankings in 2023
**new ranking for 2024

NEW YORK TIMES

#35 in the U.S. for Greatest Economic Diversity

Awareness to Action: *Promoting Equity in Education and Careers*

ILLINOIS EDUCATION AND CAREER
SUCCESS NETWORK

Access & Declining Student Preparedness

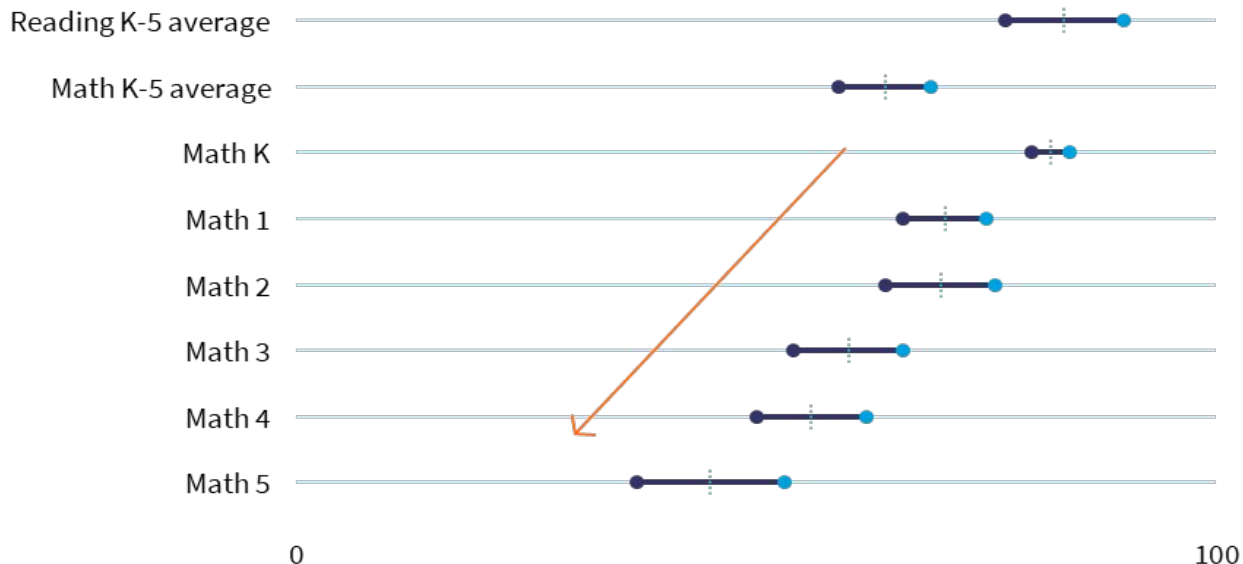**Students with Math & Calculus STEM Preparation**

National

36%

Chicago Public Schools

19%

**Amount students learned in the 2019 -20 school year**, % of historical scores[1]

● Schools with >50% students of color | All schools average | ● Schools with >50% white students

Reading K-5 average	
Math K-5 average	
Math K	
Math 1	
Math 2	
Math 3	
Math 4	
Math 5	

0   100

[1] Percent of an "average" year of learning by students in 2019-20 school year, where 100% is equivalent to historical matched scores over previous 3 years
Source: Curriculum Associates, Published by McKinsey

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Dual Enrollment at Illinois Tech
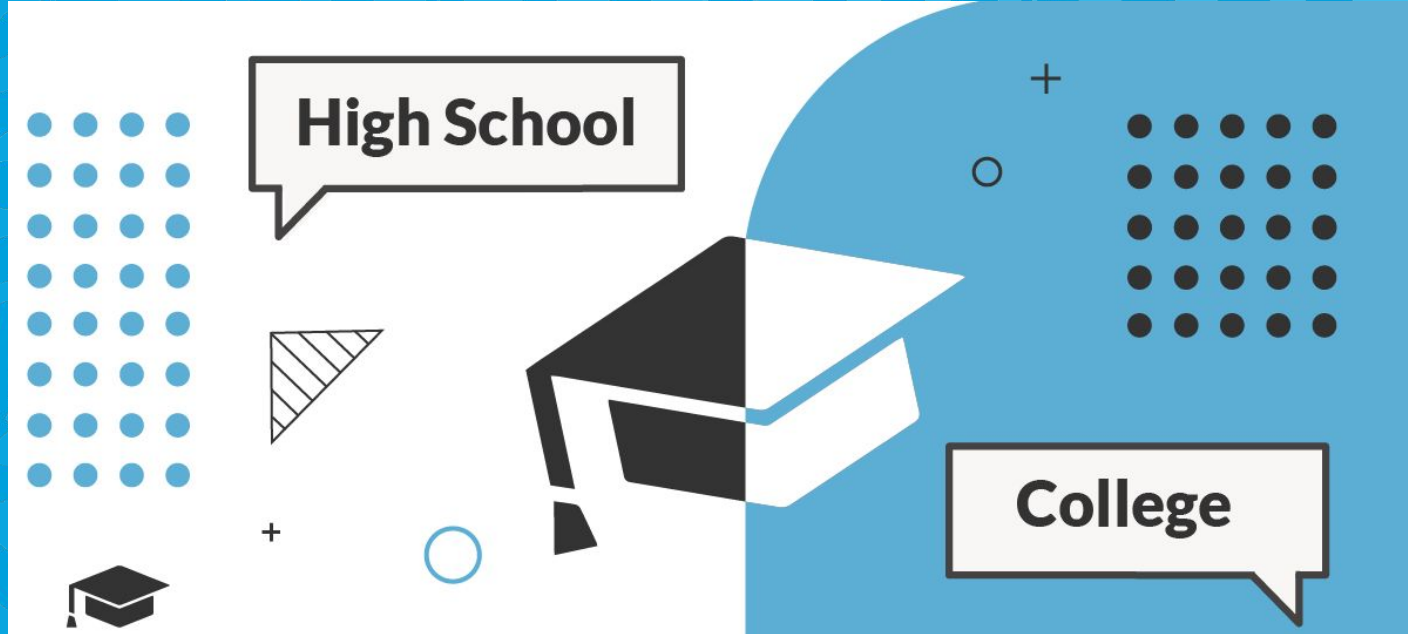
Dual Enrollment Program at Illinois Tech

GOAL

- Diversity of STEM, Business, and Humanities Offerings

- Establish High-school partnerships and pathways

- Access to College preparedness

- Help build high-quality college and career pathways

- Offer easy access through

  o Virtual or Hybrid Modalities

 o Asynchronous and Synchronous

AUDIENCE

- CPS – South & West Side

- CPS & Illinois high Schools

- Illinois Tech Pathway/Feeder Schools

- National high school students

- First Gen & Pell Eligible Students

BENEFITS

- Focused pathways to higher education and Increased High School Graduation

- Reducing the cost of a college degree

  o Earn college level credits
  o $300 Per Dual Enrollment Courses Vs. $4,000 per college level course
  o Plus $1,000 Edge Awards/Scholarship per course towards overall tuition

- Reducing the time to graduation

- College readiness, college enrollment, and college retention(NCES, 2017).

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9 Dual-Enrollment Tracks of rigorous **STEM courses** starting sophomore year.
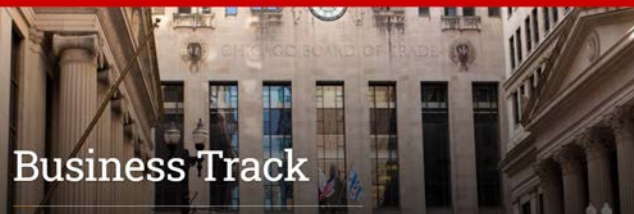
Dual-Enrollment Tracks
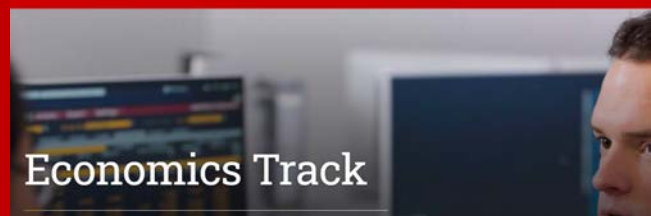
Biology

Business

Chemistry

Computer Science

Economics

Engineering

Information Technology

Mathematics

Social Sciences

Biology Track

Business Track

Chemistry Track

Computer Science Track

Economics Track

Engineering Track

Information Technology Track

Social Sciences Track

Mathematics Track

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Dual Enrollment Modality

In-Person Only Tracks & Credits

Track 1: Mathematics

Fall & Spring:
- Math 147 – College Algebra (4)
- Math 148 – Pre-Calculus (4)
- Math 151 – Calculus(4)
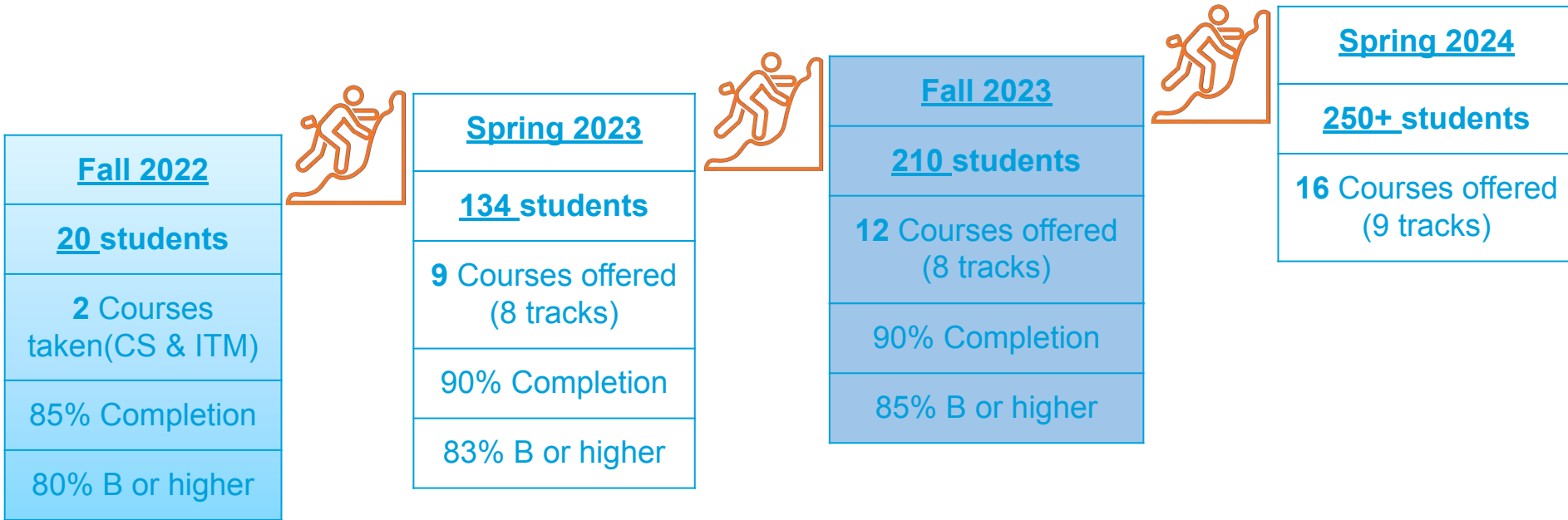- Math 152 – Calculus II (5)

Online Only Track & Credits

Track 2: Information Technology

Fall:
- ITM 301 – Introduction to Contemporary Operating Systems and Hardware I (3)
- ITM 313 - Introduction to Open-Source Application Development (3)
- ITMD 361 – Fundamentals of Web Development (3)

Spring:
- ITMO 340 – Introduction to Data Networks and the Internet (3)
- ITMO 356 – Introduction to Open-Source Operating Systems (3)

Hybrid Tracks & Credits

Track 3: Biology

Fall:
- Biol 105 – Introduction to Biology (3)
- Biol 214 - Genetics (3)

Spring:
- Biol 114 - Introduction to human Biology for non-major (3)
- Biol 104, Linux and Perl Programming (3)

Track 4: Chemistry

Fall:
- CHEM 122 – Principles of Chemistry without Laboratory (3)

Spring:
- CHEM 100 – Introduction to the Profession (3)
- CHEM 125 – Principles of Chemistry II (4)
- CHEM 472 – Environmental Chemistry(3)

Track 5: Computer Science

Fall:
- CSS 115 – Object-Oriented Programming I (2)

Spring:
- CSS 116 – Object-Oriented Programming II (3)
- CSS 331 – Data Structures and Algorithms(3)

Track 6: Business

Fall:
- BUS 100 – Intro to Business (3)
- BUS 211 – Financial Statements(3)

Spring:
- BUS 102 – Computing for Business (3)
- BUS 212 – Accounting (3)

Track 7: Economics

Fall:
- ECON 151 – Microeconomics(3)
- ECON 251 –Introduction to Econometrics (3)

Spring:
- Spring: ECON 152 – Macroeconomics(3)

Track 8: Engineering

Fall:
- BME 100 – Biomedical Engineering Introduction to the Profession (3)
- MMAE 375 – Mechanical, Materials, and Aerospace Engineering for the 21st Century (3)
- ECE 100 – Electrical and Computer Introduction to the Profession(3)

Spring:
- MS 201 – Materials Science(3)

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ILLINOIS EDUCATION AND CAREER
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Illinois Tech – Dual Enrollment Program <u>Impact</u>

Fall 2022

20 students

2 Courses taken(CS & ITM)

85% Completion

80% B or higher

Spring 2023

134 students

9 Courses offered (8 tracks)

90% Completion

83% B or higher

Fall 2023

210 students

12 Courses offered (8 tracks)

90% Completion

85% B or higher

Spring 2024

250+ students

16 Courses offered (9 tracks)

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Dual Enrollment program - Wrap-around Support for <u>Student Success</u>

Wrap-around Support

- Orientation provided prior to the start of all dual-enrollment courses to support with onboarding
- Slack Channel grouped by DE course
- Weekly email reminders regarding course assignments, tutoring, and other resources
- ECP Team Weekly Audits Blackboard for progress tracking

Access to Illinois Tech

- Admission counselors and support (college advising)
- Faculty and industry experts
- Academic Resource Center (academic support)
- Supplemental instruction/tutoring by course
- Library Services – Virtually & In-person
- Career Services (career exploration)
- Weekly progress monitoring with wraparound support

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Dual Enrollment program– High School & Students

Highschool

- Illinois Tech partner high school selects students or specific class that aligns with school course(s) to participate in dual enrollment course(s)

- Illinois Tech partner school provides a school partner liaison that corresponds with the Illinois Tech Dual Enrollment Coordinator

- Student speaks with a counselor or high school administrator to determine if Illinois Tech partnership is available at your high school

- Determine specific DE course(s) that aligns to school course(s) or that is missing from curriculum.
  - Example: CTE track of Engineering pairs with Engineering Track

- Determine the process for selecting students at your school to be apart of DE courses.
  - Option 1: Create a survey based on courses and send to students & parents
  - Option 2: Tie a specific DE course to a course at your school
  - Option 3: Counselor or Teacher recommends/picks students based on interest

- Determine who will be the liaison from high school that corresponds with Illinois DE team(Counselor, Post Secondary Career Specialist, or Teacher)
- Host and application completion even
- Make sure Unofficial transcripts and recommendations are provided to students

Students

- Students must be at least a sophomore in high school

- Students must complete an Illinois Tech dual-enrollment application online

- Students must submit a signed parental permission form

- Students must submit a copy of their high school ID card

- Students must attend virtual or in-person dual-enrollment orientation

- To receive college credit, students must pass courses with a grade of "C" or better. Depending on the high school, the student will earn high school graduation credit, but not college credit, with a grade of "D"

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Illinois Tech – Economic Mobility Focus & Success

#1 in Illinois, #32 in the nation for lifting students from families in the bottom 20% of income to the top 20% (Opportunity Insights)

#1 in Illinois, #59 in the United States in 40-year net present value (Center on Education and the Workforce at Georgetown University)

#1 in Illinois and #35 in the nation for high earnings and economic mobility in a college rankings tool created by the New York Times

#1 in Illinois, #39 in the nation for private college 20-year net ROI after financial aid (PayScale)

Awareness to Action: *Promoting Equity in Education and Careers*

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Section 3: The Illinois Mathematics and Science Academy (IMSA)

What is IMSA?

- Statewide STEM public boarding school for 650 students in grades 10-12
- We exist to transform lives by transcending educational boundaries through inquiry and innovation
- We are under the umbrella of IBHE as a state institution with a distinct curriculum, with faculty who all have advanced degrees
- Our 2nd legislative charge is to further excellence in STEM across the state through educator outreach

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How are we evolving?

- We want to impact more students by including them in various programming.
- This semester we are piloting a hybrid Object Oriented Programming class for dual credit.
- We are also advertising for a statewide CS outreach specialist to offer experiences for younger students.
- We have summer research experiences for IMSA students, and will make some available for students at other schools in 2025.

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A call for collaboration
Evan Glazer (president@imsa.edu)

- We are launching an office in Carbondale to offer educator outreach, middle school programming, and research experiences for high schoolers. We are pursuing a satellite location in Chicago with the same purpose.
- We are prototyping a Center for Artificial Intelligence at the Aurora campus
- We are in conversations about developing IMSA online courses based on need using an equity lens

Awareness to Action: *Promoting Equity in Education and Careers*

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Section 4: Q&A

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Optional Online Coursework webinar!

November 14th Event hosted by Education Strategy Group (ESG), a national EdSystems type organization

Highlights: Katie Mobley, Community College of Vermont, and **Dr Audrey Moreno, Arizona State University**.

The recording of the session is available here, and you can access the slide deck through the provided link.

Additional Resources below in Notes

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