



CCRC COMMUNITY COLLEGE
RESEARCH CENTER
TEACHERS COLLEGE, COLUMBIA UNIVERSITY

Key Strategies and Practices for Creating a Clear Pathway with Aligned High-Quality Instruction

John Fink

Ohio Faculty Clusters

February 2017

#TacklingTransfer

Tackling TRANSFER

 PUBLIC AGENDA

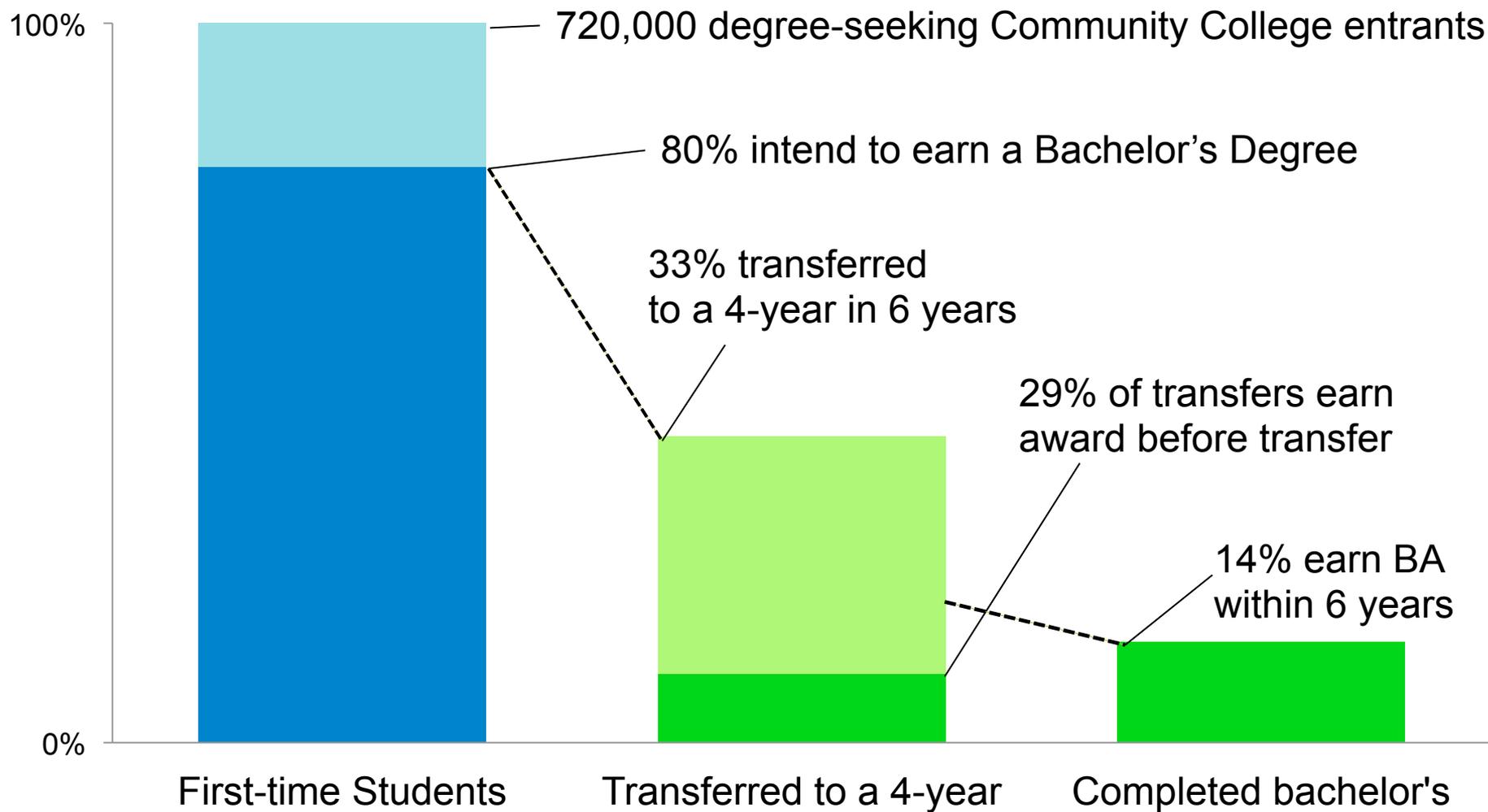
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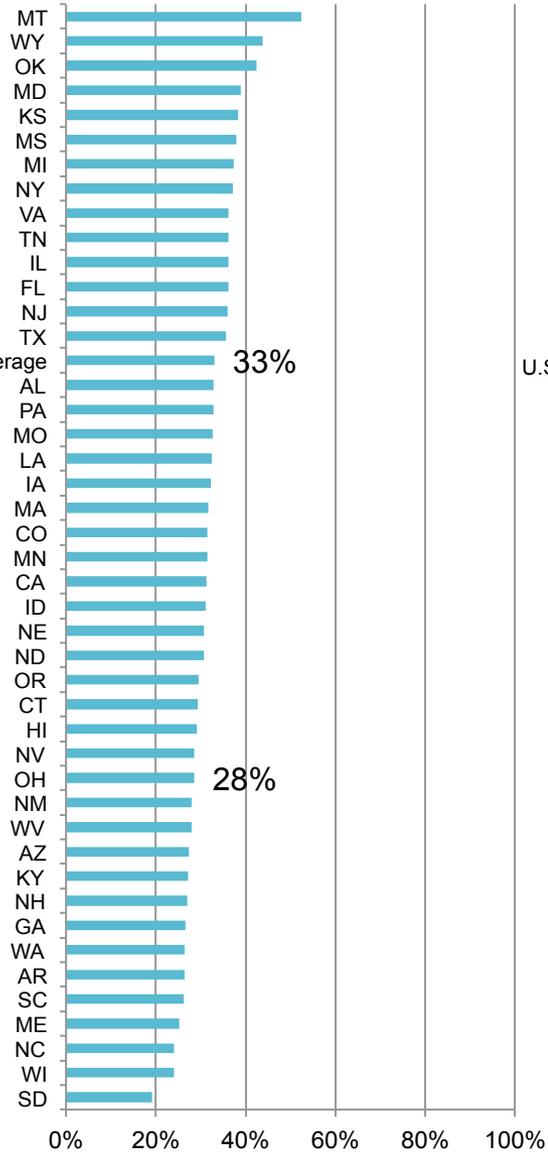

THE ASPEN INSTITUTE

NATIONAL STUDENT CLEARINGHOUSE
RESEARCH CENTER

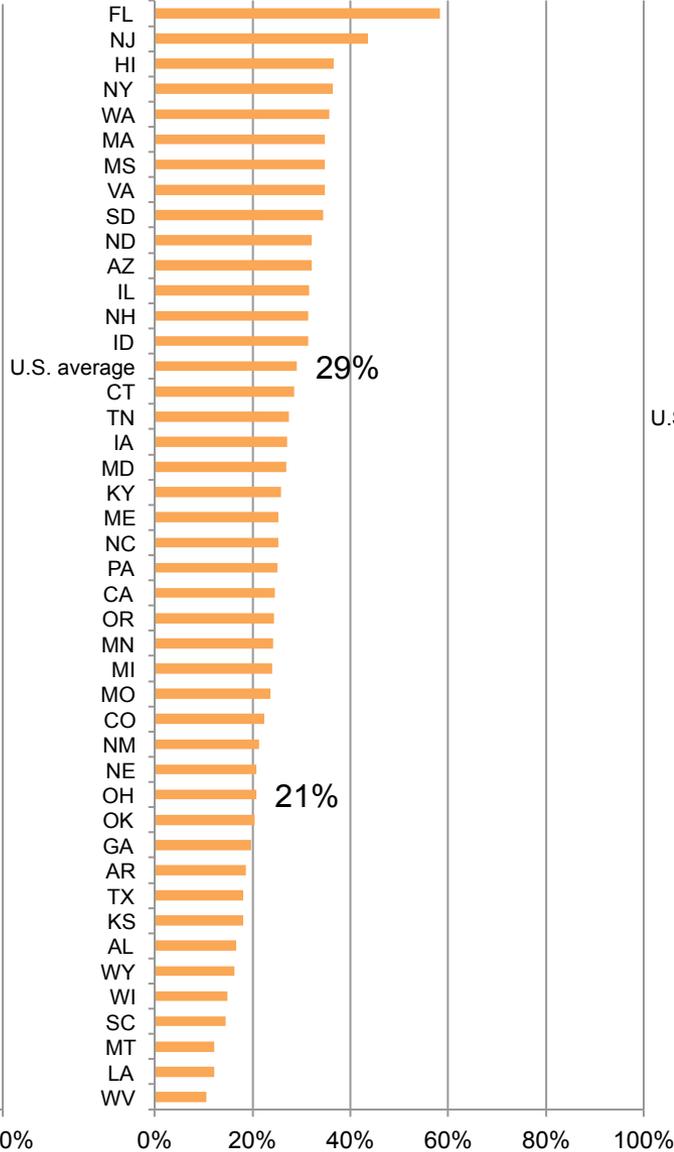
Few Transfer, Even Less Complete



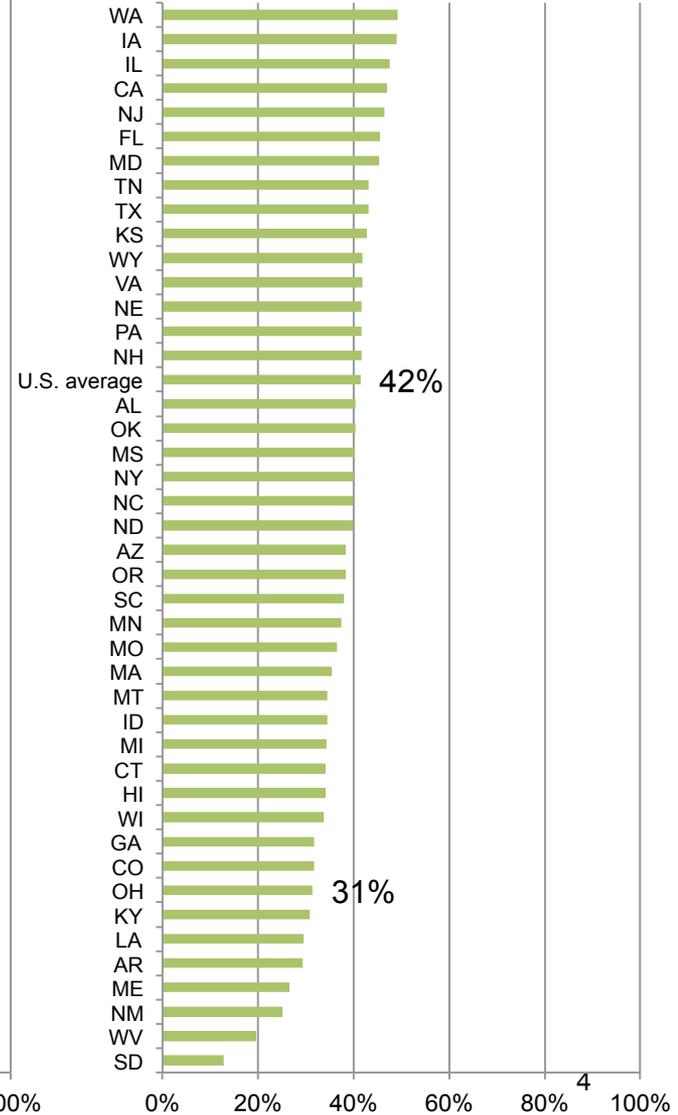
Transfer-Out Rates



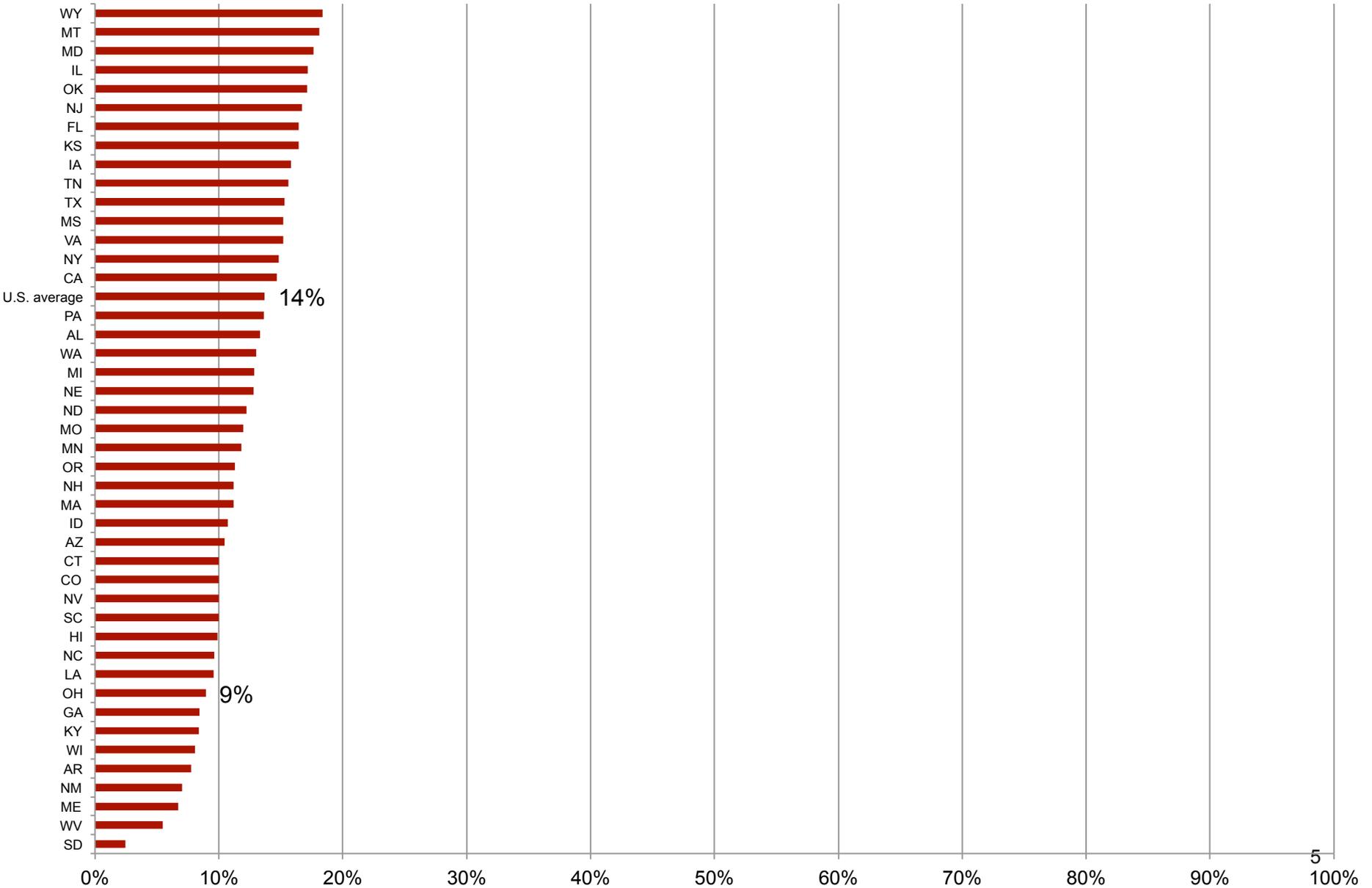
Transfer-With-Award Rates



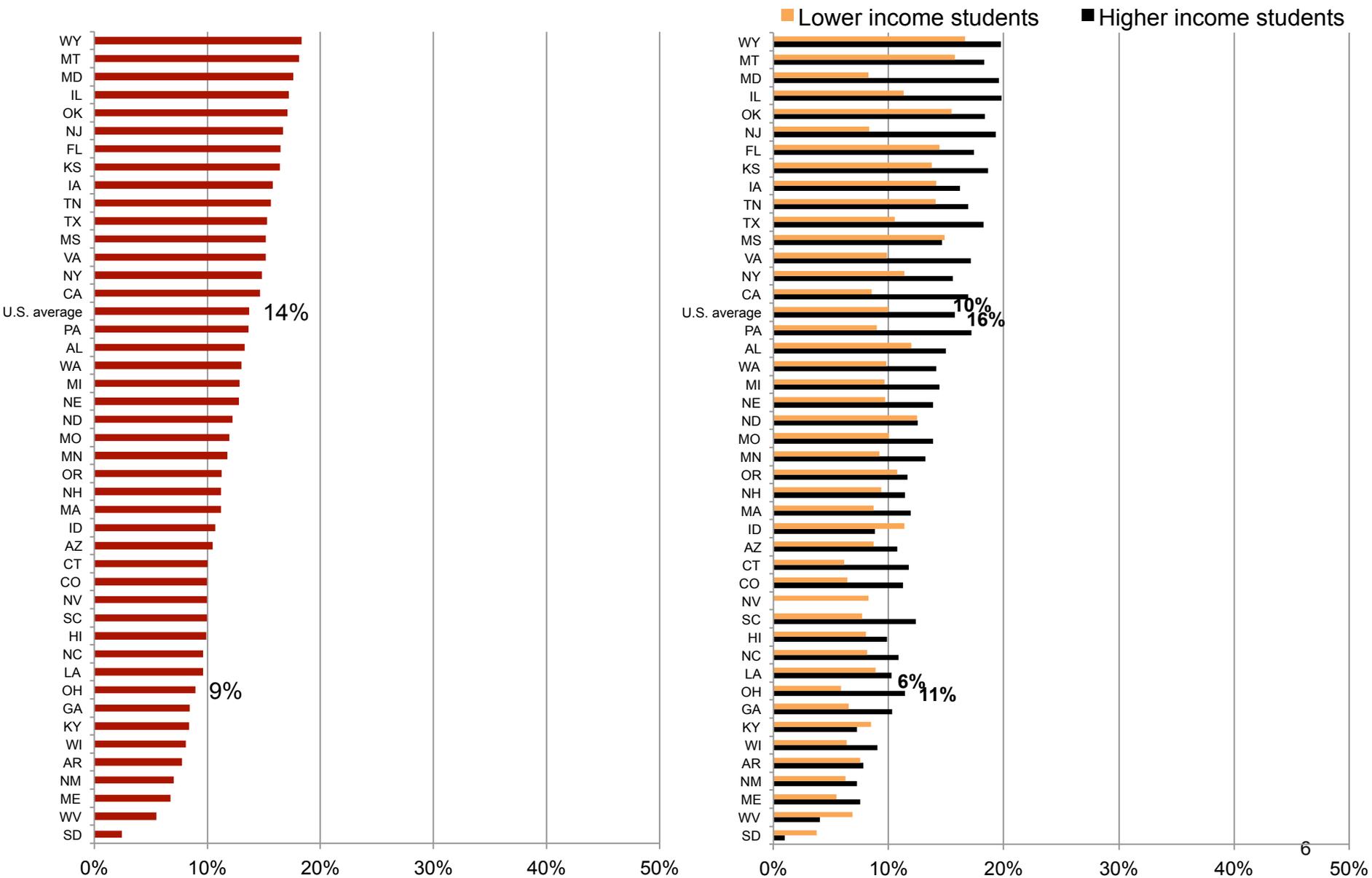
Transfer-Out Bachelor's Completion Rates



Community College Cohort Bachelor's Completion Rates by State

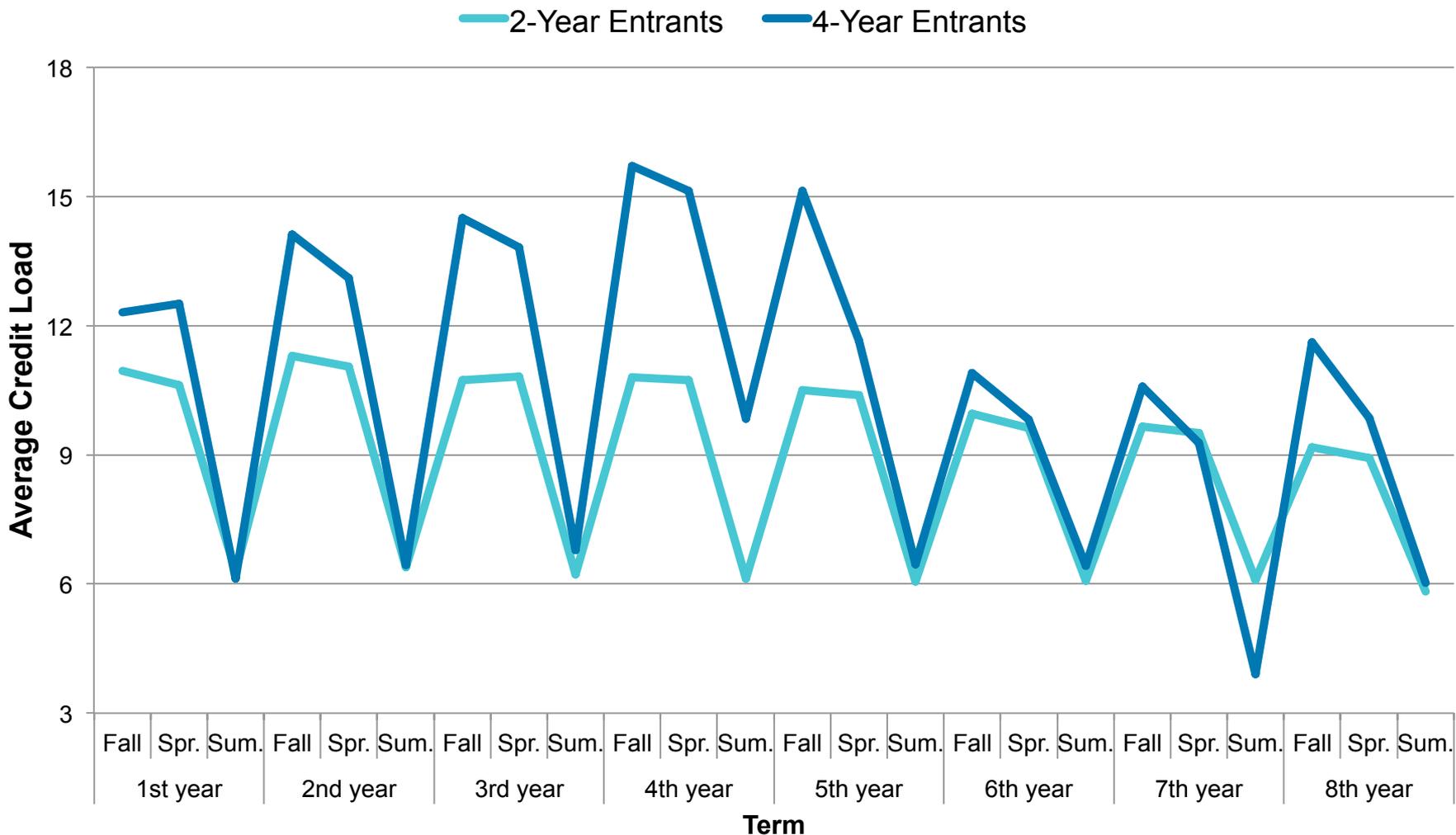


Community College Cohort Bachelor's Completion Rates by State



Understudied Barrier: Lack of Early Momentum

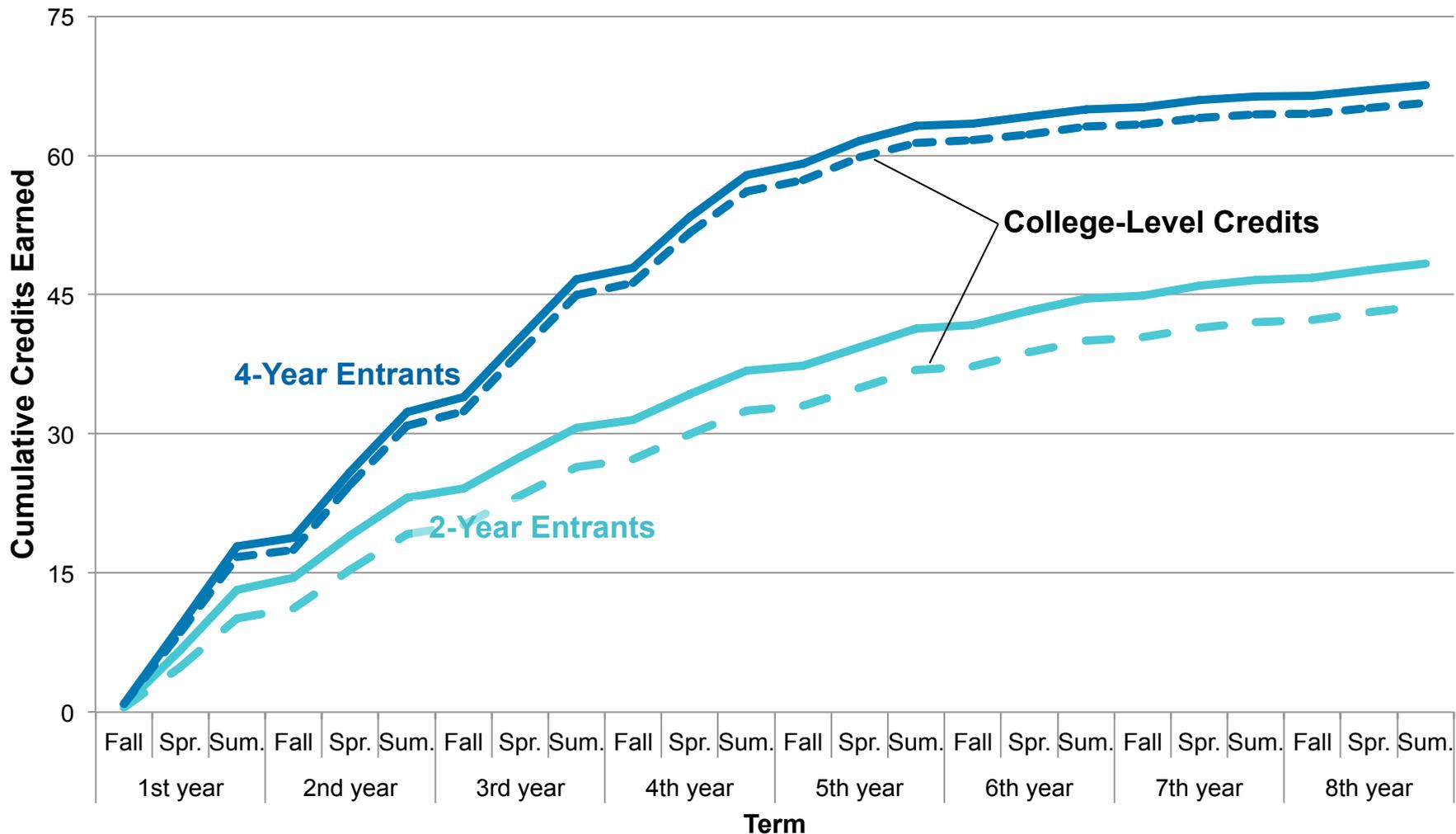
VA Fall 2004 Matched 2- and 4-Year Entrants, Average Credit Load by Term



Source: Xu, Jaggars, & Fletcher, 2016.

Understudied Barrier: Lack of Early Momentum

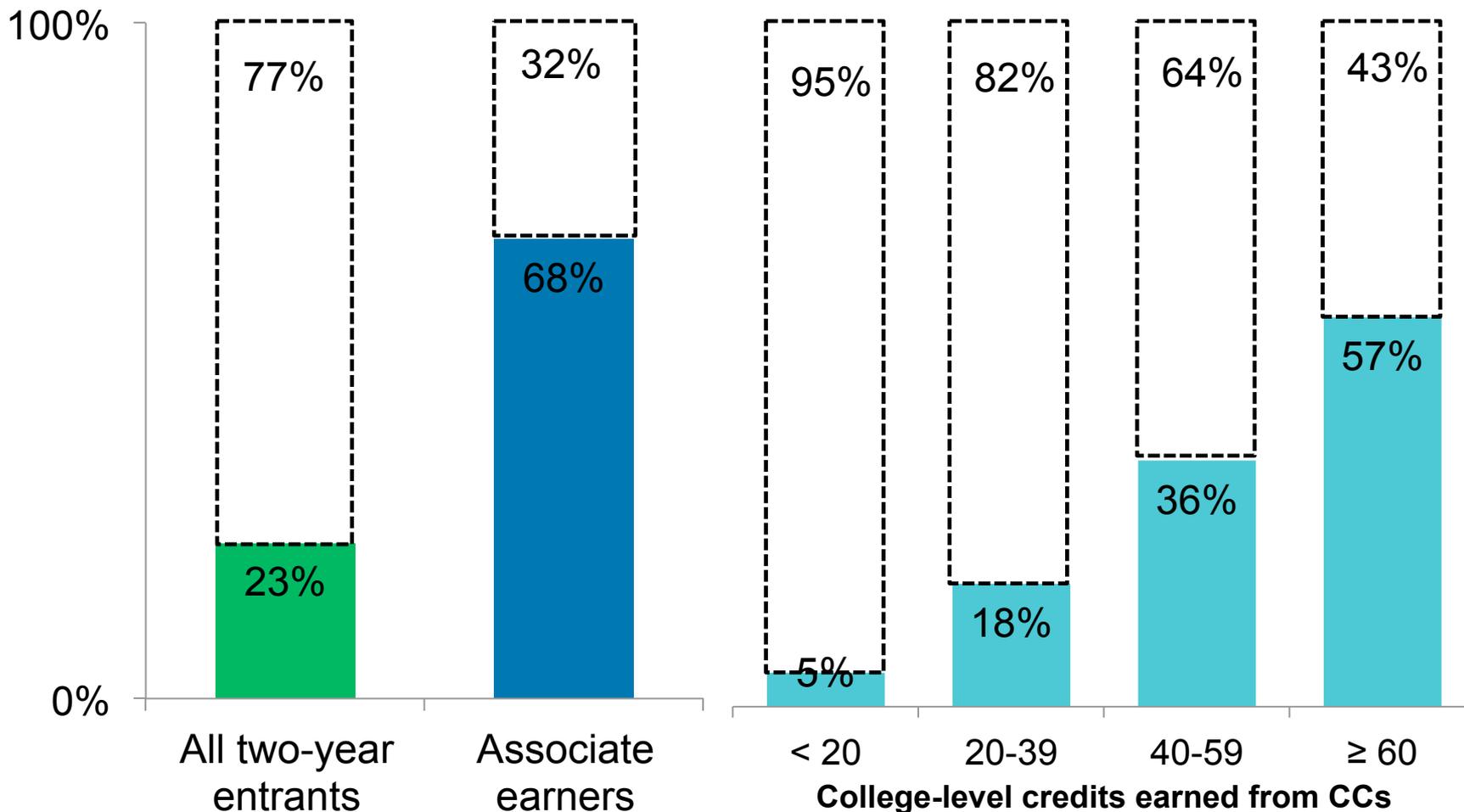
VA Fall 2004 Matched 2- and 4-Year Entrants, Cumulative Credits Earned by Term



Source: Xu, Jaggars, & Fletcher, 2016.

Understudied Barrier: Students make progress, don't transfer

Bachelor's Degree-Seeking 2-year Entrants in VA, Rate of Transfer to Four-year Colleges



Source: Xu, Jaggars, & Fletcher, 2016, Table 9.

Understudied Barrier: Transfer Credit Loss



Just **58%** of students successfully transferred 90% of their credits.



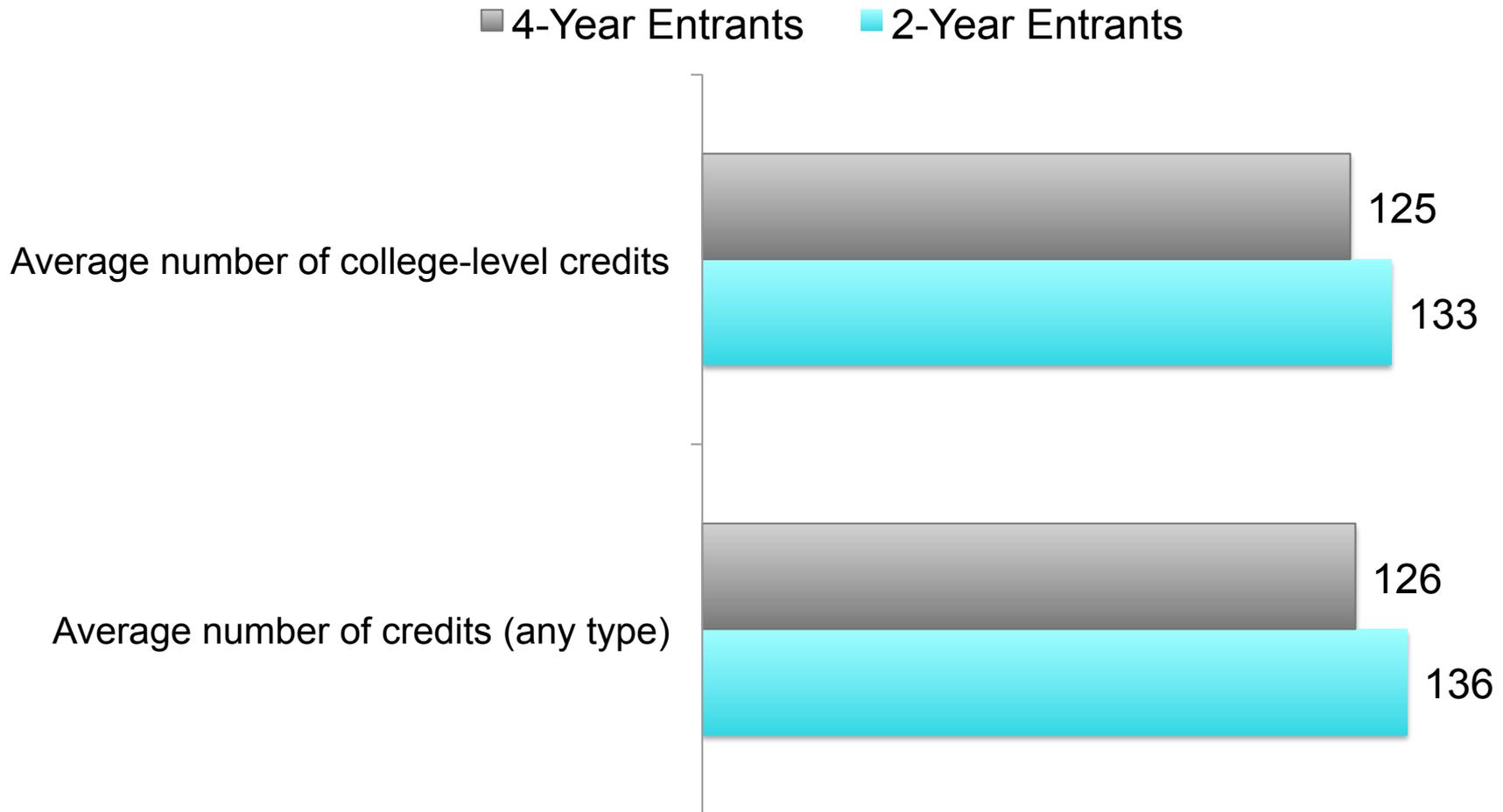
And **15%** can't transfer any credits at all.



Students who can transfer 90% of their credits were **2.5x** more likely to get their bachelor's degree, compared to those who transfer half or less.

Understudied Barrier: Transfer Credit Loss

VA Fall 2004 Matched 2- and 4-Year Entrants, Total Credits Earned at Graduation



How Can Community College and Four-Year Partners Achieve Strong Transfer Outcomes?

THE TRANSFER PLAYBOOK: ESSENTIAL PRACTICES FOR TWO- AND FOUR-YEAR COLLEGES



The Transfer Playbook: Essential Practices for Two- and Four-Year Colleges

State	Community College	Universities
Colorado	<ul style="list-style-type: none"> • Front Range CC 	<ul style="list-style-type: none"> • Colorado State University
Connecticut	<ul style="list-style-type: none"> • Manchester CC 	<ul style="list-style-type: none"> • Eastern Connecticut State U
Florida	<ul style="list-style-type: none"> • Broward College 	<ul style="list-style-type: none"> • Florida International U • Florida Atlantic U
Louisiana	<ul style="list-style-type: none"> • LSU-Eunice 	<ul style="list-style-type: none"> • U of Louisiana - Lafayette
Mass.	<ul style="list-style-type: none"> • Holyoke CC 	<ul style="list-style-type: none"> • U Mass Amherst
Washington	<ul style="list-style-type: none"> • Everett CC 	<ul style="list-style-type: none"> • University of Washington • Western Washington U

The Transfer Playbook: Essential Practices for Two- and Four-Year Colleges

- ✓ **STRATEGY 1:** Prioritize Transfer
- ✓ **STRATEGY 2:** Create Clear Programmatic Pathways with Aligned High-Quality Instruction
- ✓ **STRATEGY 3:** Provide Tailored Transfer Student Advising

STRATEGY 1: Prioritize Transfer

- ✓ Communicate transfer as a key component of the institution's mission
- ✓ Share data to increase understanding of the need to improve transfer student outcomes – and the benefits of doing so
- ✓ Dedicate significant resources to support transfer students

**“EVERYONE ASKS,
‘WHERE ARE YOU GOING NEXT?’”**

– STUDENT AT HOLYOKE COMMUNITY COLLEGE

STRATEGY 2: Create Clear Programmatic Pathways with Aligned High-Quality Instruction

- ✓ Work collaboratively with colleagues from partner institutions to create major-specific program maps
- ✓ Provide rigorous instruction and other high-quality academic experiences to prepare students for four-year programs
- ✓ Establish regular, reliable processes for updating and improving program maps
- ✓ Design unconventional pathways, as necessary

STRATEGY 2: Create Clear Programmatic Pathways with Aligned High-Quality Instruction

For this program of study...

- What learning outcomes are essential in the first two years so the student can transfer to a four-year college with junior standing?
- What essential elements of the “native” freshman and sophomore learning experience may be hard to replicate for community college transfer students?
- What alternatives to these hard-to-replicate learning experiences can be provided so that the students’ junior-year standing is not compromised?

STRATEGY 2: Create Clear Programmatic Pathways with Aligned High-Quality Instruction

THREE IMPORTANT TOPICS FOR CONTINUOUS IMPROVEMENT CONVERSATIONS AMONG TRANSFER PARTNERS:

1. CURRICULAR CHANGES: Community colleges and four-year colleges should review any current or anticipated changes in program design and requirements since the prior meeting.

2. ACCESS ISSUES FOR TRANSFER STUDENTS: Four-year colleges should identify any degree programs where transfer students may face significant barriers to entry as a result of limited slots, high demand, resource constraints, or changed admission standards.

3. STUDENT SUCCESS DATA: Four-year colleges should present data on the following transfer student outcomes for each of their main community college “sending” partners:

- Percentage of transfer credits accepted overall
- Percentage of transfer credits that are accepted toward particular majors
- Student grades in upper-level courses
- Number of years it takes transfer students to graduate

Where possible, transfer student outcomes should be broken out by major or field and compared to those of native students.

Overview of program Business Transfer DTA

GENERAL INFORMATION

This degree satisfies general undergraduate requirements for a major in economics through a university in the sciences or business. This degree meets statewide guidelines for transfer to the following Washington State universities subject to exceptions and qualifications outlined in this guide: Central Washington University, University of Washington, Washington State University, Western Washington University, Gonzaga University, Heritage University, Pacific Lutheran University, Saint Martin's University, Seattle Pacific University, Seattle University, Walla Walla University, and Whitworth University.

Information on common transfer destinations

Central Washington University (CWU) www.cwu.edu	Seattle Pacific University (SPU) www.spu.edu/depts/sbe
Eastern Washington University (EWU) www.ewu.edu	University of Washington (UW) www.foster.washington.edu/academic www.uwb.edu/business (Bothell); www.tacoma.uw.edu/milgard-school
Pacific Lutheran University (PLU) www.plu.edu/busa	Washington State University (WSU) www.business.wsu.edu
Seattle University (SU) www.seattleu.edu/albers	Western Washington University (WWU) www.cbe.wwu.edu

Students interested in earning a bachelor's degree in Hospitality Management (via WSU's program at Eastern Washington University) should contact the program advisor at 425.388.9364.

GETTING STARTED AT EVERETT

Enrollment Services provide information on transfer students; contact Enrollment Services at 425.388.9364. Advising should contact the program advisor at 425.388.9364.

PROGRAM ADVISORS

Students are required to complete an academic plan. Registrar's Office provides information on academic plans. Contact Registrar's Office at 425.388.9364; dhu@everettcc.edu
Chad T. Lewis, Olympus 216
425.388.9559; ctlewis@everettcc.edu

Lynne Muñoz, Olympus 216
425.388.9175; lmunoz@everettcc.edu

If there is no answer, please call the Division Office at 425.388.9364.

Program advisor information

BUSINESS TRANSFER—DTA/MRP DEGREE REQUIREMENTS

Must earn a C grade (2.0) or better in all required courses. Courses may be subject to prerequisites.

BASIC COMMUNICATION SKILLS (10 credits)

Course	Course Title	Credits	Grade	Quarter	Year
ENGL& 101 or ENGL& 101D	English Composition I	5			
ENGL& 102, ENGL& 102D or CMST& 220	Composition II or Public Speaking (CMST& 220 required at EWU)	5			

BASIC QUANTITATIVE SKILLS (10 credits)

Course	Course Title	Credits	Grade	Quarter	Year
MATH 138 or &141 or &144 or &148 or &151 (or higher)		5			
MATH& 148 or &151 or higher		5			

HUMANITIES (15 credits with no more than 10 credits from any one discipline on the AAS DTA Humanities Distribution list. No more than 5 credits of foreign language and performance arts credits can be listed. Two quarters at EvCC or two years in high school of the same world language is required for admission to all UW campuses. Students interested in a business major should consult with the specific transfer institution regarding foreign language requirements.)

Course	Course Title	Credits	Grade	Quarter	Year
		5			
		5			
		5			

SOCIAL SCIENCE (15 credits; 10 credits in economics; 5 credits other than economics from the AAS DTA Social Science distribution list. BUS &101 recommended as a social science distribution course.)

Course	Course Title	Credits	Grade	Quarter	Year
ECON& 201	Micro Economics	5			
ECON& 202	Macro Economics	5			
BUS& 101 (recommended)	Introduction to Business	5			

NATURAL SCIENCE (15 credits; 5 credits in statistics; 5 credits each from the AAS DTA Natural Science distribution lists Part A and B.)

Program-specific "degree-sheets"

Notes:

- To earn a certificate or degree, the courses must be completed with a cumulative GPA of 2.0 (C) or better.
- Gonzaga requires a course equivalent to its BMIS 235, Management Information Systems.
- PLU requires a course equivalent to its Computer Applications CSCE 120 or MOS certification; CL 101 may suffice to fulfill this requirement.
- SPU requires a course equivalent to its BUS 1700 or MOS certification (MOS 77-420); BT 242 may suffice to fulfill this requirement.
- WWU requires a course equivalent to its MIS 220 Introduction to Computer Systems; CL 101 may suffice to fulfill this requirement. The WWU Manufacturing and Supply Chain Management program requires additional coursework, some of which may also be taken as elective credit at EvCC. Management program web site is www.wwu.edu/node/731/.

Notes:

- To earn a certificate or degree, the courses must be completed with a cumulative GPA of 2.0 (C) or better.
- Gonzaga requires a course equivalent to its BMIS 235, Management Information Systems.
- PLU requires a course equivalent to its Computer Applications CSCE 120 or MOS certification; CL 101 may suffice to fulfill this requirement.
- SPU requires a course equivalent to its BUS 1700 or MOS certification (MOS 77-420); BT 242 may suffice to fulfill this requirement.
- WWU requires a course equivalent to its MIS 220 Introduction to Computer Systems; CL 101 may suffice to fulfill this requirement. The WWU Manufacturing and Supply Chain Management program requires additional coursework, some of which may also be taken as elective credit at EvCC. Management program web site is www.wwu.edu/node/731/.

MY MAJOR

UNDERGRADUATE DEGREE SEARCH

ADMINISTRATIVE AND MANAGEMENT
BIOLOGICAL AND ENVIRONMENTAL SERVICES
GLOBAL AND SOCIAL SCIENCES
HONORS
HUMANITIES AND ARTS
HEALTH SCIENCES
PHYSICAL SCIENCES AND ENGINEERING
COMPUTER SCIENCES
BUSINESS ADMINISTRATION



SELECT A FIELD OF INTEREST

MAJOR MAP SHOWING COURSE SEQUENCE AND PREREQUISITES NEEDED TO COMPLETE BACHELOR'S DEGREE IN TWO ADDITIONAL YEARS

BROWSE MAJORS IN THE FIELD

MY MAJOR BROWSE MAJORS

MAJORS DEGREE MAJOR MAPS COLLEGE/SCHOOL

MAJOR PROGRAM DESCRIPTION

MAJOR:
COMPUTER SCIENCE
BACHELOR OF SCIENCE
ENGINEERING AND COMPUTING

PROGRAM DESCRIPTION

ADMISSION REQUIREMENTS

CAREER OPPORTUNITIES

UNDERGRADUATE MAJOR MAP

FALL TERM 2016

SPRING TERM 2017

SUMMER TERM 2017

FIU FLORIDA INTERNATIONAL UNIVERSITY **MyMajor** **Apply**

UNDERGRADUATE DEGREE SEARCH

MyMajor provides in-depth information on all FIU Undergraduate majors, their admissions criteria, career opportunities, and their departments' contact information. Use this tool to help find where you fit at FIU.

All areas of interest
 Administration and Management
 Biological and Environmental Sciences
 Global and Social Sciences
 Honors
 Humanities and Arts
 Health Sciences
 Physical Sciences and Engineering

Search using career/major name

Select an area of interest

GSI: GRADUATION SUCCESS INITIATIVE

MyMajor is part of the Graduation Success Initiative, a set of innovations dedicated to helping students learn more about GSI, please visit

FIU FLORIDA INTERNATIONAL UNIVERSITY **MyMajor**

Undergraduate Degree Search

Physical Sciences and Engineering | All campuses | or by college/school: Architecture and the Arts

BROWSE MAJORS

Majors	Degree	Major Maps	College/School	Campuses
Biomedical Engineering	Bachelor of Science	2-year Transfer, 4-year Freshman	Engineering and Computing	MMC
Chemistry (BA)	Bachelor of Arts	2-year Transfer, 4-year Freshman	Arts and Sciences	MMC
Chemistry (BS)	Bachelor of Science	2-year Transfer, 4-year Freshman	Arts and Sciences	MMC
Chemistry: Biochemistry	Bachelor of Arts	2-year Transfer, 4-year Freshman	Arts and Sciences	MMC
Computer Engineering	Bachelor of Science	2-year Transfer, 4-year Freshman	Engineering and Computing	MMC
Computer Science	Bachelor of Science	2-year Transfer, 4-year Freshman	Engineering and Computing	MMC

Program description

COMPUTER SCIENCE, BACHELOR OF SCIENCE

Engineering and Computing
Campus: Modesto Maidique Campus

Program Description

The BSCS degree presents a course of study that

Admission Requirements

Career Opportunities

Related Occupations:

Computer Scientist; Control System Computer Scientist; Scientific Programmer Analyst.

Most of these occupations require graduate school. For example, they may require a master's degree, and some require a Ph.D., M.D., or J.D. (law degree).

Wages & Employment Trends for :

Florida Median income	\$90,910
Florida rate of growth	+5%
National Median wages	\$108,360
National Projected growth	+15 to 21%

Source and more information:
<http://www.onetonline.org/link/summary/15-1011.00>

Select a major map for course sequence and prerequisites to finish in two years

FIU FLORIDA INTERNATIONAL UNIVERSITY

Undergraduate Major Map

Catalog Year: 2015
College / School: Engineering
Major: Computer Science - BS
Track / Concentration: Career Path
Two Year Transfer

Fall Term 2015

Course Group	Course Required	Course Description	Credit Hours	Crit Ind
Core Courses	CDA 3103	Fund Computer Systems	3	
Additional Courses	ENC 3249	Prof Tech Writing Comp	3	
Core Courses	COP 3337	Programming II	3	
Core Courses	STA 3033	Prob & Stat For Cs	3	
Core Courses	MAD 2104	Discrete Mathematics	3	

Spring Term 2016

Course Group	Course Required	Course Description	Credit Hours	Crit Ind
Core Courses	CDA 4101	Structure Comp Org	3	
Core Courses	CDS 3095	Technology in the Global Arena	3	
Core Courses	COP 3530	Data Structures	3	
Core Courses	COT 3541	Logic For Comp Sci	3	
Core Courses	COP 4710	Database Management	3	

Summer Term 2016

Course Group	Course Required	Course Description	Credit Hours	Crit Ind
Core Courses	COP 4338	Programming III	3	

FIU FLORIDA INTERNATIONAL UNIVERSITY

Undergraduate Major Map

Fall Term 2016

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CDA 4010	Software Org I	3	C	
Electives	CNT 4713	Networks Computing	3		
Core Courses	MAD 3812	Theory Algorithms	3		
Electives			3		Please see PDA for list of approved courses.
General Electives			3		Please see advisor for list of approved GL courses.

Spring Term 2017

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CIS 4011	Senior Project	3		
Core Courses	COP 4300	Phn Of Prog Lang	3		
Core Courses	COP 4610	Operating Syst Princ	3		
Electives			3		Please see PDA for list of approved courses.
Electives			3		Please see PDA for list of approved courses.

Summer Term 2017

Use this semester to catch up on coursework if necessary.

General Requirements

2 year plan assumes student has completed an Associates of Arts Degree from a Florida Public Institution as well as the following pre-requisite courses for the major: COS 1800, COP 2210, MAC 2310, MAC 2312, PHY204A, PHY 2048L, PHY2049, PHY 2048L, BSC 1010 and BSC 1010L OR BSC 1011 and BSC 1011L, MAD 2104

Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor.

GENERAL UNIVERSITY REQUIREMENTS

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:
Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning courses.

STRATEGY 3: Provide Tailored Transfer Student Advising



COMMUNITY COLLEGE ADVISING PRACTICES

- ✓ Clearly articulate students' transfer options and help them determine, as early as possible, their field of interest, major, and preferred transfer destination
- ✓ Continuously monitor student progress, provide frequent feedback and intervene quickly when students are off-track
- ✓ Help students access the financial resources necessary to achieve their goals

STRATEGY 3: Provide Tailored Transfer Student Advising



FOUR-YEAR COLLEGE ADVISING PRACTICES

- ✓ Commit dedicated personnel, structures, and resources for transfer students
- ✓ Assign advisors and clearly communicate essential information to prospective transfer students
- ✓ Strongly encourage transfer students to choose a major prior to transfer
- ✓ Replicate elements of the first-year experience for transfer students
- ✓ Exercise fairness in financial aid allocation

For more information

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<http://ccrc.tc.columbia.edu>

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and briefs, and sign-up for news announcements.

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