

TEACHERS COLLEGE, COLUMBIA UNIVERSITY

# Mapping Postsecondary Pathways To More Equitable Student Success In a Robot Economy

Dr Davis Jenkins CCRC Dr. Ed Massey Indian River State College

Florida Pathways Institute II – Mapping Pathways to Student Success February 10, 2021

# CCRC research points to these practices as essential to achieving more equitable student success.



*High-opportunity programs*: Backward design programs to ensure they prepare students to secure a good job and/or transfer with no excess credits in student's field of interest



#### Academic and career and planning: Help every student explore academic and career options and interests and develop a full educational plan by the end of term 1



#### Academic-career communities:

Help all students connect with faculty, advisors, students, alumni, employers, others in a field of interest from the start



#### Active and experiential teaching & learning: Ensure every student has "light the fire" learning experience starting in term 1 and opportunities for active and experiential learning throughout

# Lessons on program mapping from early GP adopters

- Main objectives: a) ensure alignment of program pathways with good jobs and major transfer outcomes; b) give students and advisors guides to develop individualized education plans; c) facilitate cross-silo collaboration to build academic and career communities
- 2) Mapping best done by cross-functional teams by metamajor—involve faculty, advisors, others from across divisions, credit and non-credit
- 3) Solicit regular feedback on maps (and student outcomes) from university and employer partners by metamajor
- 4) Mapping of program on-ramps is critical and don't forget to map program pathways from high school and adult non-credit by metamajor
- 5) Avoid the "mapping trap" -- Mapping not an end in itself; use maps to continuously strengthen programs, advising and metamjor communities

# Equity focus of GP is to ensure that underserved students enter and succeed in high-opportunity programs.

- 1. What programs are our students currently enrolled in?
- 2. Which programs lead to greater or lesser opportunity?
- How can we ensure that underserved students are helped to enter and succeed in high opportunity programs?



#### Unpacking Program Enrollments and Completions With Equity in Mind

By John Fink and Davis Jenkins

Across the country hundreds of community colleges are implementing whole-college guided pathways reforms to create clearer paths to college and career success for students.<sup>1</sup> The aim of these reforms is to help students explore and decide upon career and education goals that align with their interests and aspirations, and to plan and complete a program of study to achieve those goals. As part of these reforms, colleges redesign intake and advising processes around broad career fields sometimes called "meta-majors"; this helps entering students make sense of the large number of program options that are available and engages them with faculty, advisors, and other students in a field of interest right from the start (Jenkins et al., 2020). Guided pathways reforms are challenging for colleges to pursue; they entail the participation of all staff

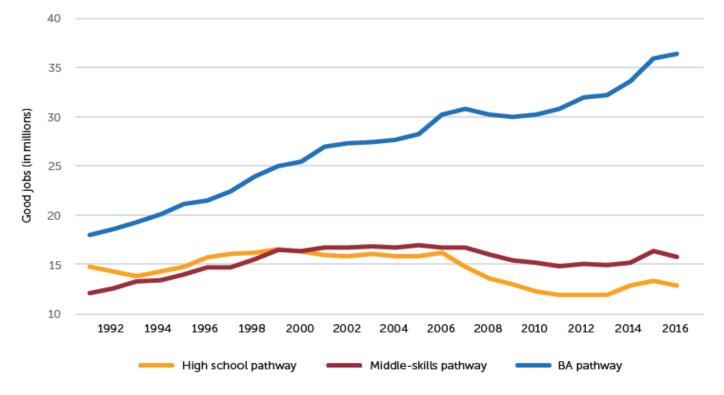
retorms are challenging for colleges to pursue; they entail the particip in modifying practices around a far-reaching notion of student success (Jenkins et al., 2019). They require a shift in mindset wherein college personnel ask not only "Are students persisting and completing?" but also "Do our programs really lead to the education and career outcomes students seek?" and "Is student representation across our programs equitable?"

A substantial literature base reveals not only that returns to higher education programs are stratified but also that this stratification operates along racial/othnic, gender, and socioeconomic lines.

Critically examining what programs students are entering and socioeco completing is particularly important given that some community college programs lead to substantially higher economic returns than others (Belfield & Bailey, 2017; Dadgar & Trimble, 2015). A substantial literature base reveals not only that returns to higher education programs are stratified but also that this stratification operates along racial/ethnic, gender, and socioeconomic lines (Carnevale et al., 2016; Castex & Decher, 2014). Though this research has focused primarily on the four-year sector, it may be that community colleges are in even more danger of facilitating inequitable stratification since their programs vary by subject area as well as length (corresponding, e.g., to short- and long-term certificates, applied associate degrees, and associate of arts degrees designed to prepare students for upward transfer to bachelor's degree programs). There is a wide range in the economic returns to different types of community college awards, with longer programs and those leading to bachelor's

# Good jobs\* increasingly require bachelor's degrees...

Figure 4. By 2000, the middle-skills pathway surpassed the high school pathway in providing good jobs.



"Good jobs" defined as those that pay a minimum of \$35,000 for workers between the ages of 25 and 44 and at least \$45,000 for workers between the ages of 45 and 64.

\*

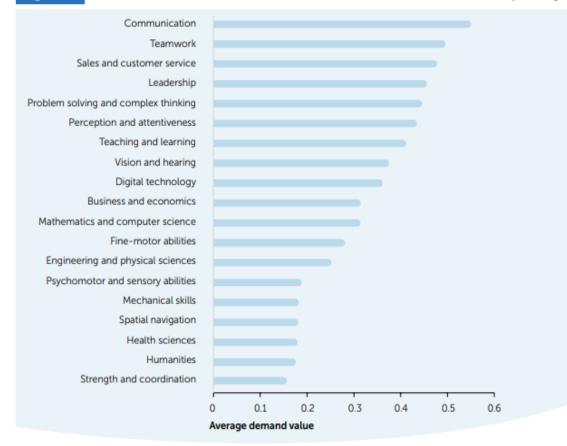
Source: Georgetown University Center on Education and the Workforce analysis of data from the US Census Bureau and Bureau of Labor Statistics, *Current Population Survey*, 1992–2017.

Source: Carnevale, et al., Three Educational Pathways to Good Jobs. Georgetown Center on Education and the Workforce, 2018.

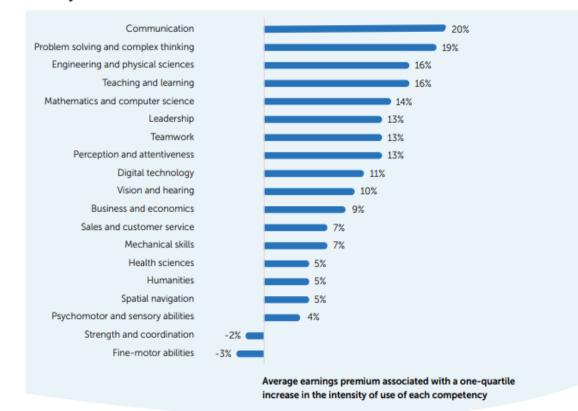
# ...plus know-how acquired through active and experiential learning

Figure 4.

Across the labor market, communication is the most in-demand competency.



### **Figure 5.** Communication has the highest earnings premium associated with higher intensity of use.



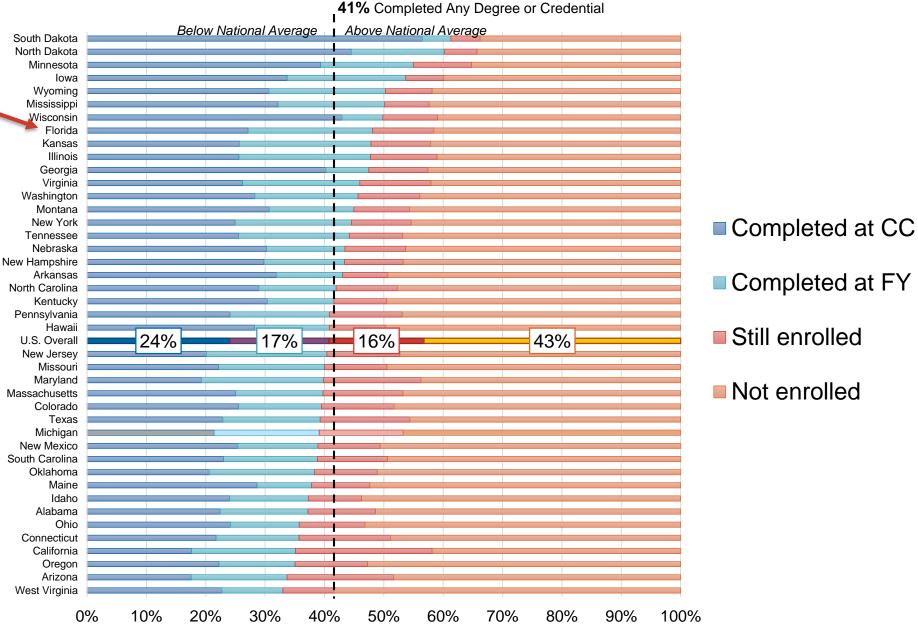
Source: Georgetown University Center on Education and the Workforce analysis of data from US Census Bureau, American Community Survey (ACS), 2014–18, and US Department of Labor, Employment and Training Administration, Occupational Information Network (O\*NET) 24.3 Database, 2020. Source: Georgetown University Center on Education and the Workforce analysis of data from US Census Bureau, American Community Survey (ACS), 2014–18, and US Department of Labor, Employment and Training Administration, Occupational Information Network (O\*NET) 24.3 Database, 2020.

Source: Georgetown University Center on Education and the Workforce, Workplace Basics: The Competencies Employers Want, 2020.

#### **Florida State Colleges**

CCRC

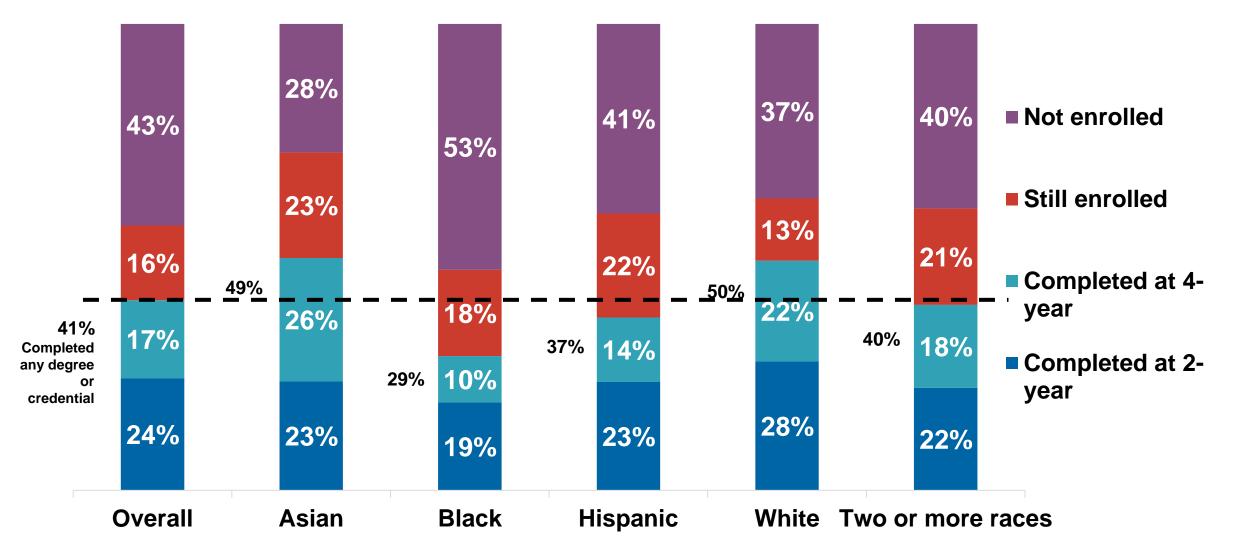
Highest degree outcomes in six years: Community college starters, by state



Source: NSC Completing College Signature Report tracking the fall 2013 FTIC, degree-seeking public 2-yr entering cohort (excluding current dual enrollment students but including former DE students)

# Highest 6-year outcomes for community college starters

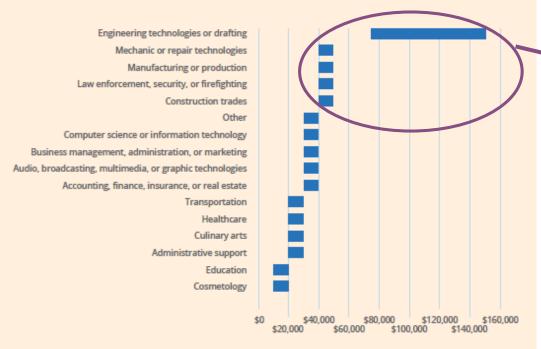
CCRC



Source: National Student Clearinghouse Completing College (Signature Report) tracking the fall 2013 cohort of first-time-in-college, degree-seeking students at public two-year colleges.

# Many FSC CTE credentials do not have strong labor market returns.

**FIGURE 13.** Workers with certificates in engineering technologies or drafting have median earnings between \$75,001 and \$150,000—higher than those with certificates in other fields.



22% PSAVs awarded by FL state colleges in 2016-17

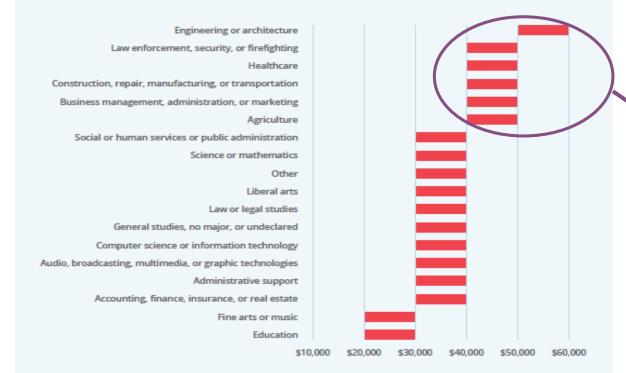
Source: Georgetown University Center on Education and the Workforce analysis of data from the Adult Training and Education Survey (ATES), 2016.

Note: ATES asks respondents to specify their earnings during the 12 months prior to the interview within prescribed wage bands by field of study. We calculated median wage bands based on earnings for prime-age workers (ages 25 to 64) with positive earnings. Fields with fewer than 30 records were not included.

Source: Carnevale, et al., Overlooked Value of Certificates and Associate's Degrees. Georgetown Center on Education and the Workforce, 2020.

# Many FSC associate degrees do not have strong labor market returns.

**FIGURE 12.** Workers with associate's degrees in engineering have median earnings between \$50,001 and \$60,000 per year, compared to between \$20,001 and \$30,000 per year for those who studied education or fine arts.



17% of associate degrees awarded by FL state colleges in 2016-17

Source: Georgetown University Center on Education and the Workforce analysis of data from the Adult Training and Education Survey (ATES), 2016.

Note: ATES asks respondents to specify their earnings during the 12 months prior to the interview within prescribed wage bands by field of study. We calculated median wage bands based on earnings for prime-age workers (ages 25 to 64) with positive earnings. Fields with fewer than 30 records were not included.

#### Source: Carnevale, et al., Overlooked Value of Certificates and Associate's Degrees. Georgetown Center on Education and the Workforce, 2020.

# AA transfer degrees are valuable only if students can transfer with few excess credits in their major





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.

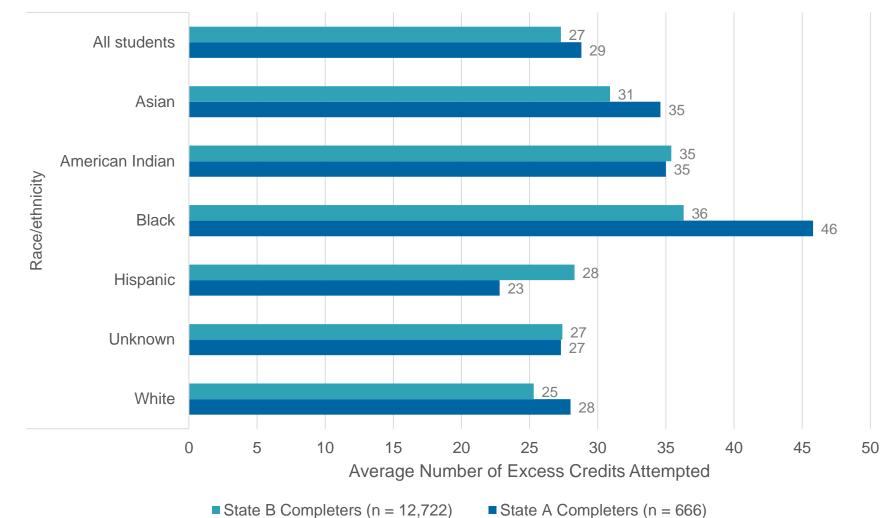
# We couldn't find data on FCS students' credits to a bachelor's degree, but they take lots of credits for the AA

Table 3: Average Credits-to-Degree**Florida College System and Southern Regional Education Board States      for Students WITH Acceleration Hours						
	2008-09 2009-10			9-10	2010-11	
Category	ry FT <sup>*</sup> PT <sup>*</sup> FT		FT <sup>*</sup>	PT*	FT <sup>*</sup>	PT*
FCS Rank Among States Reporting With Acceleration Credits (5 in 2008-09, 6 in 2009-10 and 5 in 2010-11)	$1^{st}$	3 <sup>rd</sup>	3 <sup>rd</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	2 <sup>nd</sup>
FCS Credits With Acceleration Hours	73.1	72.9	73.9	72.6	73.8	73.1
SREB State Average Credits With Acceleration Hours	75.1	72.8	77.1	75.1	76.2	74.0
Difference	-2.0	0.1	-3.2	-2.5	-2.4	-0.9
Average Credits-to-Degree for Students WITHOUT Acceleration Hours						
Category	$\mathbf{FT}^{*}$	PT*	$\mathbf{FT}^{*}$	PT*	$\mathbf{FT}^{*}$	PT*
FCS Rank Among States Reporting Without Acceleration Credits (2 in 2008-09, 7 in 2009-10 and 6 in 2010-11)	1 <sup>st</sup>	1 <sup>st</sup>	3 <sup>rd</sup>	3 <sup>rd</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
FCS Credits Without Acceleration Hours	81.3	81.4	77.3	78.0	77.1	77.9
SREB State Average Credits Without Acceleration	86.2	88.7	83.7	79.7	83.1	80.2
Difference	-4.9	-7.3	-6.4	-1.7	-6.0	-2.3
*Full and part-time status is determined based on student's first enrollment at graduating college. **60 hours required for an associate degree in Florida.						

Source: SREB-State Data Exchange and Division of Florida Colleges Research & Analytics.

Source: HOW DOES THE FLORIDA COLLEGE SYSTEM COMPARE TO OTHER SOUTHERN STATES ON MEASURES RELATING TO DEGREE COMPLETION? TIME-TO-DEGREE? CREDITS-TO-DEGREE?, Florida College System Research and Analytics, 2013.

## Excess Credits Attempted among CC Starters Who Transferred and Completed a Bachelor's Degree: State A and B



Fink, Jenkins, Kopko, & Ran, (2018). Using Data Mining to Explore Why Community College Transfer Students Earn Bachelor's Degrees With Excess Credits. CCRC Working Paper No 100.

# Categorizing Community College Programs by Post-Graduation Opportunity

Category	Description	Examples	
Workforce: Low	Program places students into jobs with low average earnings (e.g., less than \$14/hour)	Criminal Justice, Automobile Technology, Early Childhood	
Workforce: Medium	Program places students into relatively middle-paying job (e.g., between \$14-\$17.55/ hour)	Accounting, Welding, Business Management, Dental Assistant	
Workforce: High	Program places students into a relatively high-paying job (e.g., more than \$17.55/ hour)	Nursing, Radiology Technology, Sonography, Dental Hygiene	
Transfer: Unstructured	Program designed for general transfer (no pre-major or university destination necessarily specified)	AA-General Studies, "General Transfer"	
Transfer: Structured	Program designed to prepare students for a particular baccalaureate major/meta-major and/or a specific four-year destination	AA-Business (DTA), AS-T (Engineering)	
Undeclared or Unknown	Listed as undeclared or missing program information	Null, Missing Program, Undeclared	
Uncategorized or Other	Non-degree seeking, ESL, ABE, dual enrollment	Basic Education, ESL, Running Start	

# **Program Equity Explorer Excel Tool**

Data Tool: Unpacking Program Enrollments and Completions with Equity in Mind John Fink, June 2020



TEACHERS COLLEGE, COLUMBIA UNIVERSITY

This Excel tool is designed to help colleges get started in examining data on student program enrollments and completions,\* following three primary questions described in the companion CCRC Analytics publication (linked below):

1) What programs are our students currently enrolled in? (Tab 1)

2) What opportunity does each program lead to in terms of further education (e.g., transfer to bachelor's programs or bridges into more advanced workforce credentials) and/or immediate job prospects and earnings. Which programs lead to greater or lesser opportunity? (Tab 2)

3) Is student representation across programs proportionate? Which subgroups of students (by race/ethnicity, gender, socioeconomic status, and age) are underrepresented in higher-opportunity programs? (Tabs 3-4)

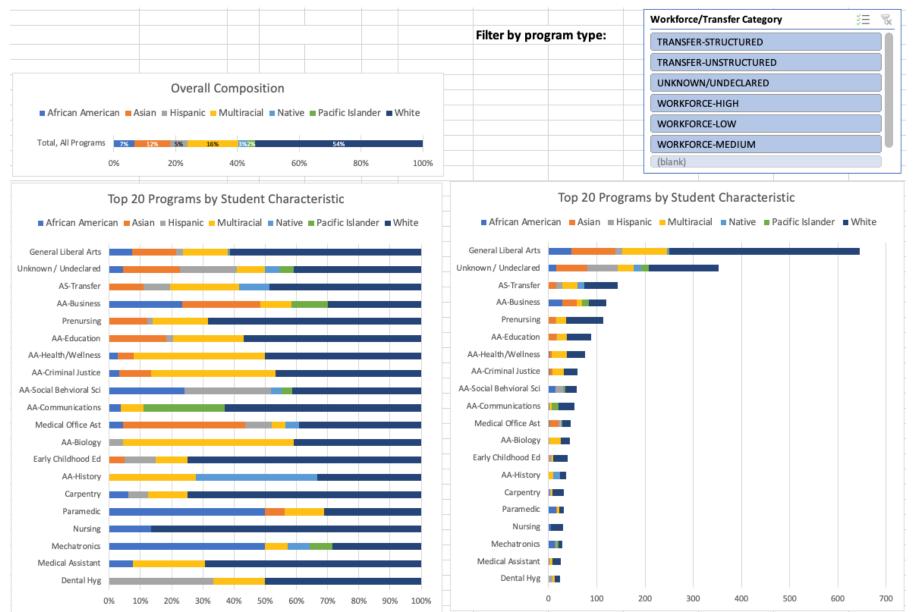
	A	В	С	D	E	F	G
1	Program	Workforce/Transfer Category	Meta-major	Gender	Race	Age	Count
2	General Liberal Arts	TRANSFER-UNSTRUCTURED	Arts, Humanities, Communication	Male	Asian	<18	1
3	Pre-Vet Medicine	TRANSFER-UNSTRUCTURED	Industrial & Applied Technologies	Female	Multiracial	18-24	1
4	Repair Tech	WORKFORCE-LOW	Industrial & Applied Technologies	Female	African American	18-24	1
5	AS-Transfer-Physics	TRANSFER-STRUCTURED	STEM	Male	Asian	<18	1
6	AS-Transfer-Physics	TRANSFER-STRUCTURED	STEM	Female	Multiracial	<18	1
7	General Liberal Arts	TRANSFER-UNSTRUCTURED	Arts, Humanities, Communication	Female	White	25+	1
8	AA-Transfer-Business	TRANSFER-STRUCTURED	Business	Female	White	18-24	1
9	Unknown / Undeclared	UNKNOWN/UNDECLARED	Arts, Humanities, Communication	Male	African American	25+	1
10	AA-Transfer-Business	TRANSFER-STRUCTURED	Business	Male	African American	18-24	1
11	Kinesiology	WORKFORCE-MEDIUM	Social & Behavioral Sciences	Male	Asian	25+	1
12	Forest Resources	WORKFORCE-LOW	Industrial & Applied Technologies	Female	White	18-24	1
13	Dental Assisting	WORKFORCE-MEDIUM	Human Services & Public Safety	Male	Pacific Islander	18-24	1
14	History	TRANSFER-UNSTRUCTURED	Arts, Humanities, Communication	Male	Native	<18	1
15	Political Science	TRANSFER-UNSTRUCTURED	Social & Behavioral Sciences	Male	Hispanic	<18	1
16	AS-Transfer-Biology	TRANSFER-STRUCTURED	STEM	Male	Multiracial	18-24	1
17	AS-Transfer-Construction	TRANSFER-STRUCTURED	Industrial & Applied Technologies	Male	White	18-24	1

## **Program Equity Explorer Excel Tool**

TEACHERS COLLEGE, COLUN

Total Students: 2,624 Filter by student characteristics: Sum of count Workforce/Transfer Categ 🔻 Program -+ Total PROGRAM ENROLLMENTS WITHIN CATEGORIES • TRANSFER-STRUCTURED AS-Transfer 144 注 % Student Age TRANSFER-STRUCTURED TRANSFER-UNSTRUCTURED = UNKNOWN/UNDECLARED = WORKFORCE-HIGH AA-Business 120 Prenursing 114 WORKFORCE-LOW WORKFORCE-MEDIUM (blank) <18 88 AA-Education 18-24 ANSFER-STRUCTURED TRANSFER-UNSTRUCTURED UNKNOWN/UNDECLARED AA-Health/Wellness 76 25+ 60 AA-Criminal Justice 58 AA-Social Behvioral Sci (blank) AA-Communications 54 44 AA-Biology Student Race/Ethnicity 36 AA-History African American 24 AA-English TRANSFER-UNSTRUCTURED General Liberal Arts 646 Asian • UNKNOWN/UNDECLARED Unknown / Undeclared 352 Hispanic 32 WORKFORCE-HIGH Carpentry Multiracial 30 Nursing 24 Radiologic Tech Native AS-Transfer, 144 AA-Business, 120 24 Dental Hyg Pacific Islander Information Tech 12 White Healthcare Data Analytics 8 Leadership In Trades 8 (blank) Homeland Security 6 Project Management 4 žΞ 8 Student Gender Union Electrician 4 Medical Office Ast 46 Female WORKFORCE-LOW General Liberal Arts, 646 Unknown / Undeclared, 352 Early Childhood Ed 40 Male AA-Education, 88 Prenursing, 114 VORKFORCE-LOW NORKFORCE-MEDIUM Professional Cert 24 **WORKFORCE-HIGH** (blank) Forest Resources 16 Forest Law Law Enforcement 16 Professional Enforce Resource Culinary Arts 14 Medical Mechatronics, Cert, 24 s, 16 ment, 16 14 Powerpoint Assistant, 26 Paramedic, 32 28 14 Autom Repair Tech Culinar Repair Automotive Tech 14 otive Software Diesel Tech, AA-Social AAy Arts, Powerp Microcom Medical Tech.. Techno 14 AA-14 Legal Admin Assist 14 oint, 14 Develp... **Behvioral Sci**, Communicatio p Appl, 16 leboton Office Ast lealth/Wellness, Receptionist 14 58 ns, 54 y, 22 46 Office Financi Env Legal 76 Natural Resource 14 Dental Marin Accou Comp Resour Assista Admin. uter 12 ssistin. Financial Tech Web nt. 12 Tech,... ce.... Radiologi nfo.. Tec... Env Resource Management 12 rogramn Tech, 24 Hyg, 24 Reception Forensi Cosme Graphic Office Assistant 12 Crimi ng, 20 Human Kin AA-History, 36 ist. 14 tolog. 10 Desig... Forensic Tech esic Servic.. Tech. Nursing Assistant 10 Early lo.. Natural Nursin Admir usiness Digital AA-Criminal Justice, AA-Biology, Childhoo /elding, Cosmetology 10 Resourc... Assis.. AA-English, 24 Ed, 40 Manag... Desig.. Aviati.. 60 44 20 10 Admin Assistant

## **Program Equity Explorer Excel Tool**



# **Ensuring equity in high-opportunity program enrollment**

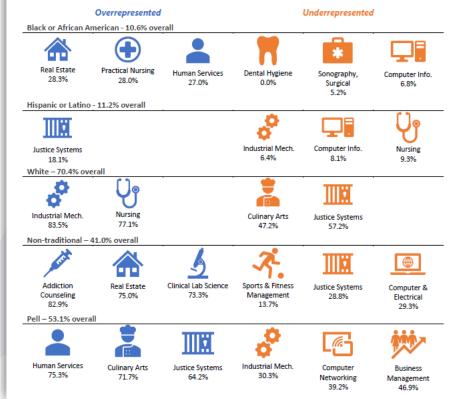
- National studies released about the impact of program selection
- Disaggregated completion rates started to prompt pipeline discussions
- Results from graduate outcome surveys sparked internal dialog
- Data & Information
  Group (DIG) shared
  creation of new report

#### Equity Progress Update 2019

Rec Lorain County Community Coll

#### Career Pathways

Up front and intentional career selection support a clear pathway to completion and provide planning for future employment opportunities. Deeper analysis reveals majors where students are over and underrepresented. This means that more (over) or less (under) students proportionally are choosing the major. The baseline comparison for determining this is the proportion of the overall student body. For instance, non-traditional students comprise 41% of the overall student body. Majors where the proportion of non-traditional students is higher that 41% would be majors where those students are more likely to select than would be anticipated and therefore the major would surface as 'overrepresented'. This illustration only shows up to three majors, however, this does not include all instances in all cases.



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# An Institutional Perspective



Dr. Ed Massey Florida Pathways Institute II February 10, 2021



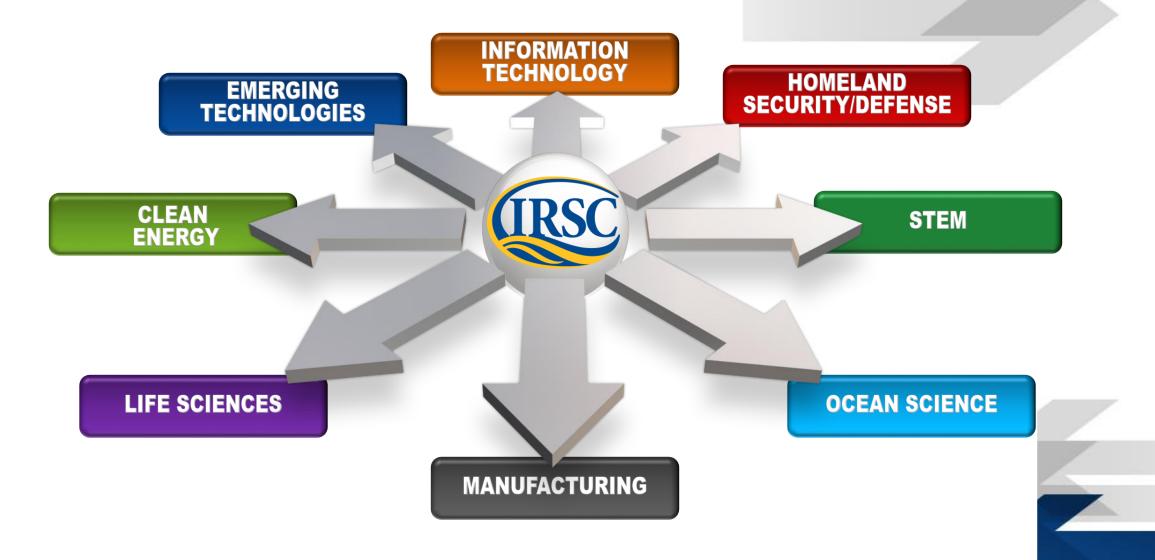
WINNER Indian River State College

2019

# **Guided Pathways – Lessons Learned**

- Transformational Change focused on improving the student experience
- Change driven by cross-campus and cross-discipline leadership commitment and communications
- Change in Business Model onboarding, financial aid, scheduling, learning outcomes, career counseling
- Expanded use of data progression points, critical courses, barrier courses, interventions, math requirements
- Institutional discipline and efficiencies in use of manpower and financial resources.

# Industry Focus of IRSC Growth



# **Basis for IRSC Growth Model**



### STATE OF FLORIDA

- Alignment with FL's Business/Economic Growth Enterprise Florida – Targeted Industry Clusters
- Recognition of State Workforce Trends
- Articulation with State Universities



## LOCAL COMMUNITY

- Strong Partnerships with Business & Industry
- Economic Dev. Recruitment
- Current Need/Reactivity : Good Future Need/Proactivity : Great
- Private Fundraising



## **INTERNALLY**

- Healthy Innovative and Entrepreneurial Culture
- Emphasis on High Quality Results
- Abundance Mentality/"Can-Do" Attitude



# **Eight Meta Majors**



This Arts, Homanitos, Cameranic alians and Design Meta-Major is designed for condrive people who are interacted in carears such as reading application and applications and the section is and microposcale. Reads and an entities, however, and then it also encomposes and field is such as even writing. Notice and then it also



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If you want to make a difference as a teacher or principal, or in some ather academic role, you will want to choose the Education Meta Major.



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# **Our Guided Pathways Story...**

2017-2020 – Momentum data reflects positive impact of Guided Pathways

2016 – Career & Transfer services revamped / Assigned Advisors for all students

2016 - New Student Orientation re-designed and required / Student Success Course required

2016 – Guided Pathways scaled for all programs & required for all degree-seeking students

2015 – AACC Pathways Project: IRSC, SPC, TCC, BC

2007 – Academic Plans available but not required

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# **Regional Center for Nuclear Education and Training**





- NSF ATE Funded Nation's 1<sup>st</sup> RC-NET hosted at IRSC
- 50+ Education, Industry, and Governmental Agency Partners
- GOAL: address the need for 41,000 skilled nuclear employees by 2030
- High direct entry success



# **K-12 Connections**

### **HIGH SCHOOL CAREER ACADEMIES**

- Goal: Inspire Students Into • Alignment with IRSC STEM Programs & Degrees
  - Digital Media
  - Aeronautics
  - Allied Health /Nursing
  - Engineering
  - Entrepreneurship

- Biotechnology
- Information Tech.
- Oceanographic
- Veterinary

Assoc.

Degree

- Manufacturing -
- 116 academies total in four-county service region





# **K-12 Connections**

- Great Explorations
  - Annual IRSC Event in Partnership with Quad-County Career Pathway Consortium and Four-County School Districts
  - Close to 1000 high school students participating in more than 50 interactive career exploration activities.
- Annual Counselors Conclave
  - Annual convening of four-county Middle, High School & College Advisors
- Dual Enrollment Opportunities

- All DE students have assigned advisors & Guided Pathways



# **Placement Test Waived due to Pandemic**

- Summer and Fall 2020
  - more students of color encouraged and confident in pursuit of Dual Enrollment Courses without the barrier of a standardized test

Dual Enrollment Rates YTD by Race/Ethnicity - F19 vs. F20 YTD

- Overall: 6.9% FTE / 2% Headcount
- Black Students: 12% FTE / 18.8% Headcount!!

# **Dual Enrollment Course Success**

## 2020 Summer A Classes:

Race/Ethnicity	Success Rate	Total Courses
Unreported	95.6%	90
American Indian or Alaska Native	**	<10
Asian	98.0%	101
Black or African American	91.7%	325
Hispanic	89.1%	632
Multiracial	90.4%	94
Native Hawaiian or Other Pacific Islander	**	<10
White	93.5%	1120
Grand Total	92.0%	2371



# **Dual Enrollment Course Success**

## **2020 Fall Semester:**

Race/Ethnicity	Success Rate	Total Courses
Unreported	91.9%	395
American Indian or Alaska Native	80.0%	25
Asian	95.2%	271
Black or African American	85.6%	950
Hispanic	86.7%	2544
Multiracial	82.1%	329
Native Hawaiian or Other Pacific Islander	**	<10
White	90.4%	4931
Grand Total	89.6%	9453



### **Davis Jenkins**

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