

# ASSESSMENT DAY

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College of Workforce, Continuing and Adult Education  
School of Occupational Apprenticeships  
Plumbers Apprentice  
April 30, 2019

Strengths

Challenges

Recommendations

# Academic Assessment

	LEVEL	FOCUS	CONDUCTED BY	FREQUENCY
<b>Academic Success Committee</b>	Program	<ul style="list-style-type: none"> <li>Quality of assessment practices</li> </ul>	Committee of peers	Years 1 & 2
<b>Instructional Program Review</b>	Program / Cluster	<ul style="list-style-type: none"> <li>Enrollment, retention, completion</li> <li>Industry certifications and job placement</li> <li>Program budget and staffing</li> <li>Advisory committees</li> <li>Curriculum changes</li> </ul>	Committee of peers	Year 3
<b>Assessment Day</b>	Course/ Program	<ul style="list-style-type: none"> <li>Enrollment by demographics</li> <li>Graduation and retention</li> <li>Average class size</li> <li>Course success rate</li> <li>Placement rate</li> <li>SLOs, PLOs and ILOs</li> </ul>	Program Chair and Faculty	Years 1, 2, 3

# Programs

[1070 - Plumbers Apprentice - Union](#)

# Action Items from Last Assessment Day

## Last Assessment Day: 2/7/2018

- Use of female graduates for marketing
- Cohort for fall
- Online DSC101 orientation will be offer to students a week prior to the start of the semester (fall 2018)

# Plumbers Apprentice #1070 Program Learning Outcomes

Graduates of the program will be able to:

**PLO 1**: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations.

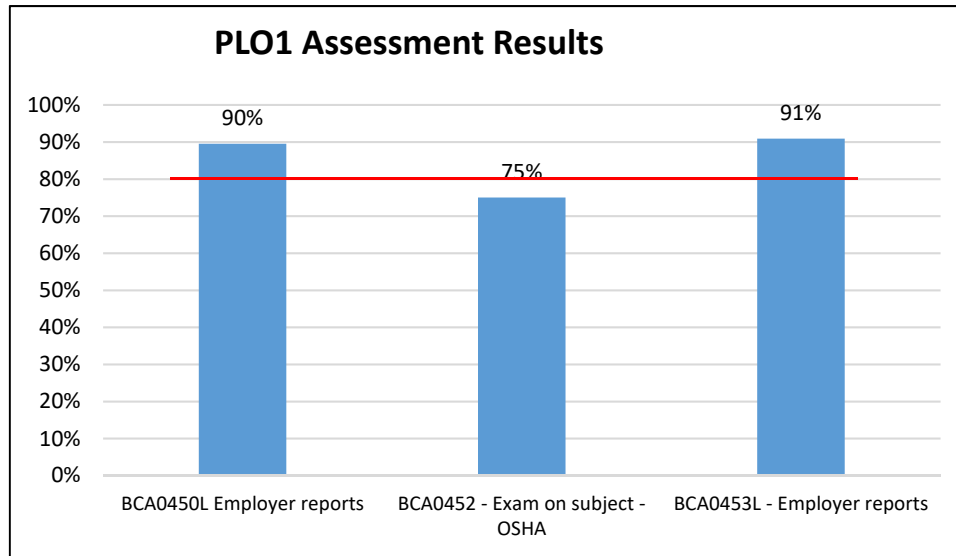
**PLO 2**: Demonstrate proper usage of different tools, equipment, materials and products used in the trade.

**PLO 3**: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety.

**PLO 4**: Demonstrate skills in the residential, commercial and industrial markets.

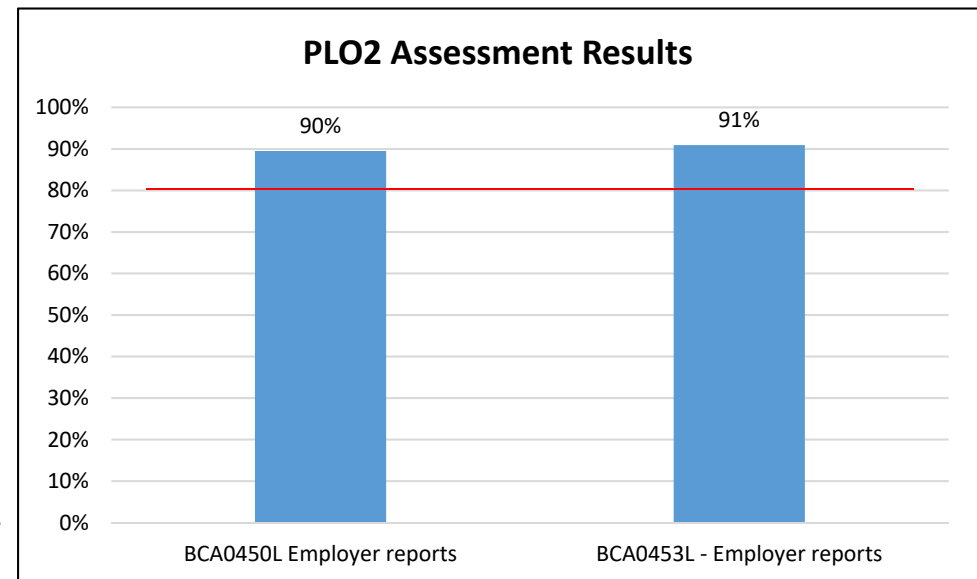
**PLO 5**: Demonstrate the ability to develop and implement projects related to the field.

## Assessment Results 2017-2018

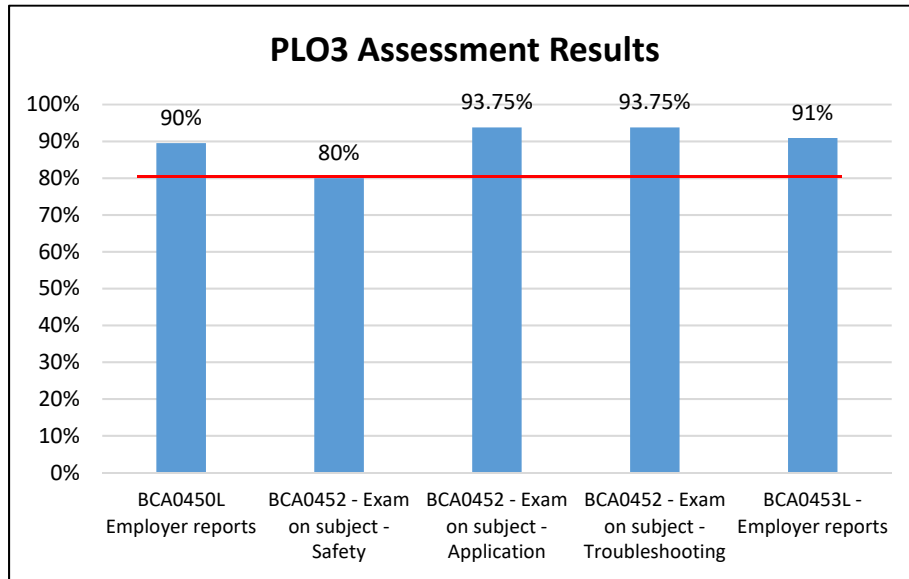


PLO1: Demonstrate the ability to follow rules, building codes, and all state and federal safety regulations. *80% of student will pass the OSHA. 80% of students will achieve satisfactory employer reports.*

PLO2: Demonstrate proper usage of different tools, equipment, materials and products used in the trade. *Target: 80% of students will achieve satisfactory employer reports.*

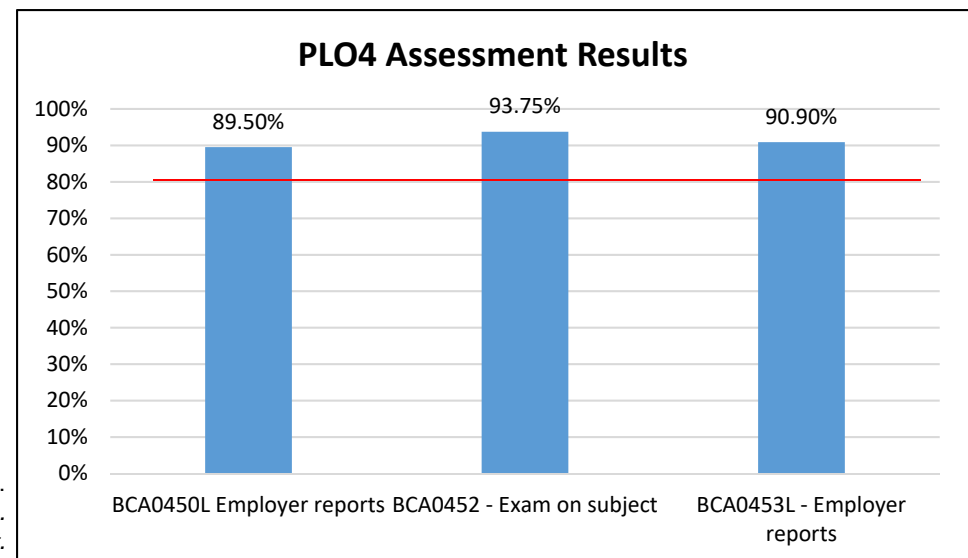


# Assessment Results 2017-2018



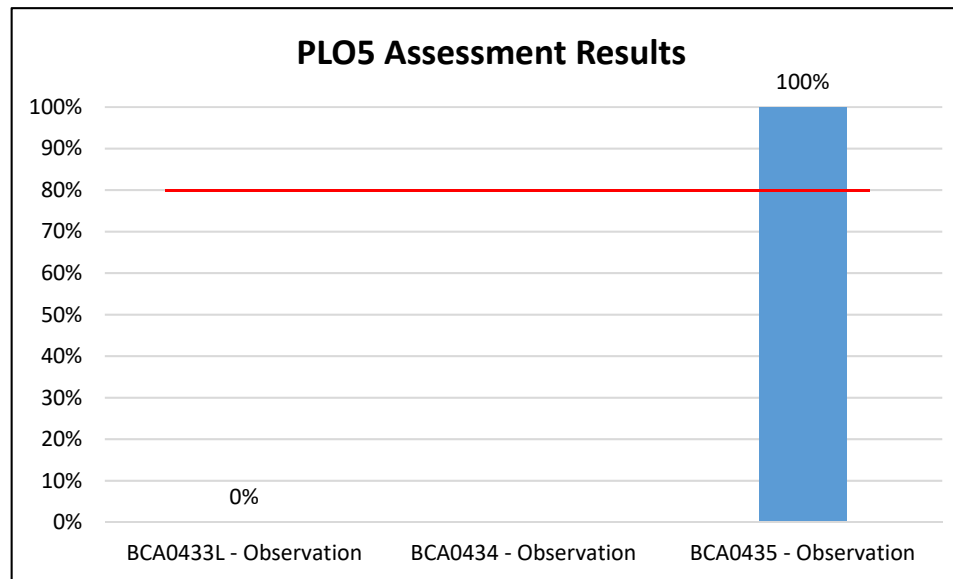
PLO3: Demonstrate knowledge in all aspects of the industry including but not limited to theory, application, troubleshooting and safety. *Target: 80% of students will achieve satisfactory employer reports. 80% of student will pass exam on subject.*

PLO4 Demonstrate skills in the residential, commercial and industrial markets.  
*Target: 80% of students will achieve satisfactory employer reports.  
 80% of student will pass exam on subject.*





## Assessment Results 2017-2018



PLO5: Demonstrate the ability to develop and implement projects related to the field.  
*Target: 80% of students will achieve 80% or higher in all assessment measures*

***\*BCA0434 was not offered***

## Assessment Data Program vs. Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	16/17	17/18	16/17	17/18	16/17	17/18	16/17	17/18
<b>1070 - PLUMBERS APPRENTICE - UNION</b>	80%-98%	89.5%-90.9%	98%-100%	89.5%-90.9%	80%-98%	89.5%-90.9%	80%-98%	89.5%-90.9%

## Course Success Rates

Major and Associated Courses		Location	2014-2015		2015-2016		2016-2017		2017-2018	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 - PLUMBERS APPRENTICE - UNION	BCA0431	ATC							1	100%
	BCA0431L	ATC							1	100%
	BCA0432	Daytona					1	100%	17	94%
	BCA0432L	Daytona					1	100%	16	100%
	BCA0433L	Daytona			5	100%			1	0%
	BCA0434		5	80%			1	100%		
	BCA0434L		5	80%			1	100%		
	BCA0435	ATC	5	100%					1	100%
	BCA0435L	ATC	5	100%					1	100%
	BCA0450L	Daytona			28	100%	13	100%	19	89%
	BCA0451	Daytona			26	96%	13	100%	35	91%
	BCA0451L	Daytona			26	96%	13	100%	36	94%
	BCA0452	Daytona	33	85%	14	79%	22	82%	22	68%
	BCA0452L	Daytona	33	85%	14	86%	22	86%	33	82%
	BCA0453L	Daytona					22	95%	12	83%
	BCA0454	Daytona					21	100%	10	100%
	BCA0454L	Daytona					21	100%	10	100%
	BCA0455	Daytona			26	35%	13	85%	16	88%
	BCA0455L	Daytona			26	85%	13	92%	15	93%
	BCA0456L	Daytona					1	100%	21	100%
	BCA0457	Daytona							20	95%
	BCA0457L	Daytona					1	100%	20	95%
	BCA0458	Daytona					22	86%	10	100%
BCA0458L	Daytona	1	100%			22	95%	10	100%	
BCA0459L	Daytona	6	100%	1	100%			1	100%	
		<b>Total</b>	<b>93</b>	<b>87%</b>	<b>166</b>	<b>83%</b>	<b>223</b>	<b>93%</b>	<b>328</b>	<b>91%</b>

Indicates a success rate of 90% or higher




Indicates a success rate between 70% and 89%

Indicates a success rate below 70%

Source: IR Program Assessment Data

## Overall Course Success Rates by Campus

Major and Instructional Method	Campus	2017-2018	
		Attempted	% Successful
1070 - PLUMBERS APPRENTICE - UNION	ATC	4	100%
	Daytona	324	91%
Total		328	91%

 Indicates a success rate of 90% or higher  
 Indicates a success rate between 70% and 89%  
 Indicates a success rate below 70%

## Course Success Rates in the Major by Instructional Method

Major and Instructional Method		2014-2015		2015-2016		2016-2017		2017-2018	
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
1070 - PLUMBERS APPRENTICE - UNION	DIS	1	100%	1	100%			5	80%
	Lab					35	97%		
	Lecture	43	86%	66	68%	93	90%	323*	91%
	OJT	49	88%	99	93%	95	95%		
	<b>Total</b>	<b>93</b>	<b>87%</b>	<b>166</b>	<b>83%</b>	<b>223</b>	<b>93%</b>	<b>328</b>	<b>91%</b>




\*includes OJT

- Indicates a success rate of 90% or higher
- Indicates a success rate between 70% and 89%
- Indicates a success rate below 70%

Source: IR Program Assessment Data

## Overall Course Success Rates by Session/Sub-session

Major or Dept. and Sub-session			2017-2018	
			Attempted	% Successful
1070 - PLUMBERS APPRENTICE - UNION	FA	Full term	135	95%
	SP	Full term	140	87%
	SU	Full term	53	92%
	Total		328	91%

 Indicates a success rate of 90% or higher  
 Indicates a success rate between 70% and 89%  
 Indicates a success rate below 70%

Source: IR Program Assessment Data

## Course Success Rate By Race/Ethnicity (1 of 2)

Program, Course, & Race/Ethnicity	# Students Enrolled	2017/18 Success Rate
1070 - Plumbers - Union	328	91%
BCA0431	1	100%
Unknown/Prefer not to answer	1	100%
BCA0431L	1	100%
Unknown/Prefer not to answer	1	100%
BCA0432	17	94%
Black	2	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	13	92%
BCA0432L	16	100%
Black	2	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	12	100%
BCA0433L	1	0%
White	1	0%
BCA0435	1	100%
White	1	100%
BCA0435L	1	100%
White	1	100%
BCA0450L	19	89%
Am. Ind	1	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	16	88%




Program, Course, & Race/Ethnicity	# Students Enrolled	2017/18 Success Rate
BCA0451	35	91%
Am. Ind	1	100%
Black	1	100%
Hispanic	2	100%
Unknown/Prefer not to answer	1	100%
White	30	90%
BCA0451L	36	94%
Am. Ind	1	100%
Black	1	100%
Hispanic	2	100%
Unknown/Prefer not to answer	1	100%
White	31	94%
BCA0452	22	68%
Asian	1	100%
Hispanic	3	67%
Unknown/Prefer not to answer	1	100%
White	17	65%
BCA0452L	33	82%
Asian	1	100%
Black	1	100%
Hispanic	4	100%
Unknown/Prefer not to answer	1	100%
White	26	77%
BCA0453L	12	83%
Asian	1	0%
Hispanic	1	100%
Two or More Races	1	100%
Unknown/Prefer not to answer	1	100%
White	8	88%

■ Indicates a success rate of 90% or higher  
■ Indicates a success rate between 70% and 89%  
■ Indicates a success rate below 70%

## Course Success Rate By Race/Ethnicity (2 of 2)

Program, Course, & Race/Ethnicity	# Students Enrolled	2017/18 Success Rate
<b>BCA0454</b>	<b>10</b>	<b>100%</b>
Hispanic	1	100%
Two or More Races	1	100%
Unknown/Prefer not to answer	1	100%
White	7	100%
<b>BCA0454L</b>	<b>10</b>	<b>100%</b>
Hispanic	1	100%
Two or More Races	1	100%
Unknown/Prefer not to answer	1	100%
White	7	100%
<b>BCA0455</b>	<b>16</b>	<b>88%</b>
Am. Ind	1	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	13	85%
<b>BCA0455L</b>	<b>15</b>	<b>93%</b>
Am. Ind	1	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	12	92%
<b>BCA0456L</b>	<b>21</b>	<b>100%</b>
Black	2	100%
Hispanic	1	100%
Unknown/Prefer not to answer	1	100%
White	17	100%
<b>BCA0457</b>	<b>20</b>	<b>95%</b>
Black	2	100%
Hispanic	1	100%
White	17	94%

Program, Course, & Race/Ethnicity	# Students Enrolled	2017/18 Success Rate
<b>BCA0457L</b>	<b>20</b>	<b>95%</b>
Black	2	100%
Hispanic	1	100%
White	17	94%
<b>BCA0458</b>	<b>10</b>	<b>100%</b>
Hispanic	1	100%
Two or More Races	1	100%
Unknown/Prefer not to answer	1	100%
White	7	100%
<b>BCA0458L</b>	<b>10</b>	<b>100%</b>
Hispanic	1	100%
Two or More Races	1	100%
Unknown/Prefer not to answer	1	100%
White	7	100%
<b>BCA0459L</b>	<b>1</b>	<b>100%</b>
White	1	100%

 Indicates a success rate of 90% or higher  
 Indicates a success rate between 70% and 89%  
 Indicates a success rate below 70%



## Course Success Rate By Race and Ethnicity

Race/Ethnicity	Enrolled	2017/18 Success Rate
Am. Ind	5	100%
Asian	3	67%
Black	13	100%
Hispanic	24	96%
Two or More Races	5	100%
Unknown/Prefer not to answer	17	100%
White	261	90%
<b>Grand Total</b>	<b>328</b>	<b>91%</b>

■ Indicates a success rate of 90% or higher  
■ Indicates a success rate between 70% and 89%  
■ Indicates a success rate below 70%

## Grade Distribution (1 of 2)

Major and Associated Courses		2017-2018							
		A	B	C	D	F	FN	W	W1
1070 - PLUMBERS APPRENTICE - UNION	BCA0450L	17	0	0	0	2	0	0	0
	BCA0453L	10	0	0	0	2	0	0	0
	BCA0456L	21	0	0	0	0	0	0	0
	BCA0459L	1	0	0	0	0	0	0	0
	<b>Summer 2017 Total</b>	<b>49(92.5%)</b>	<b>0(0%)</b>	<b>(0%)</b>	<b>(0%)</b>	<b>4(17.5%)</b>	<b>(0%)</b>	<b>(0%)</b>	<b>(0%)</b>
	BCA0431	0	1	0	0	0	0	0	0
	BCA0431L	1	0	0	0	0	0	0	0
	BCA0435	0	1	0	0	0	0	0	0
	BCA0435L	1	0	0	0	0	0	0	0
	BCA0451	9	18	5	0	2	0	0	1
	BCA0451L	34	0	0	0	0	1	1	0
	BCA0454	5	5	0	0	0	0	0	0
	BCA0454L	10	0	0	0	0	0	0	0
	BCA0457	14	5	0	0	0	0	0	1
	BCA0457L	19	0	0	0	0	1	0	0
	<b>Fall 2017 Total</b>	<b>93(68.9%)</b>	<b>30(22.2%)</b>	<b>5(3.7%)</b>	<b>0(0%)</b>	<b>2(1.5%)</b>	<b>2(1.5%)</b>	<b>1(0.7%)</b>	<b>2(1.5%)</b>

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes, labs, clinicals, private/performance, open lab, co-op, DIS, and internships.

Source: IR Program Assessment Data

## Grade Distribution (2 of 2)

Major and Associated Courses			2017-2018							
			A	B	C	D	F	FN	W	W1
1070 - PLUMBERS APPRENTICE - UNION	Spring 2018	BCA0432	5	11	0	0	0	0	1	0
		BCA0432L	16	0	0	0	0	0	0	0
		BCA0433L	0	0	0	0	1	0	0	0
		BCA0452	9	6	0	0	1	0	0	6
		BCA0452L	27	0	0	0	5	0	0	1
		BCA0455	6	7	1	0	1	0	1	0
		BCA0455L	14	0	0	0	1	0	0	0
		BCA0458	9	1	0	0	0	0	0	0
		BCA0458L	10	0	0	0	0	0	0	0
	Spring 2018 Total		96(70.1%)	25(18.2%)	1(0.1%)	0(0%)	9(6.6%)	0(0%)	2(1.5%)	4(3%)

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Source: IR Program Assessment Data

## Average Class Size by Course

Major and Associated Courses		2014-2015		2015-2016		2016-2017		2017-2018	
		Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size
1070 - PLUMBERS APPRENTICE - UNION	BCA0431							1	1
	BCA0432					1	1	2	9
	BCA0434	1	5			1	1	1	1
	BCA0435	1	5					1	1
	BCA0450L							1	19
	BCA0451			2	13	1	13	2	18
	BCA0452	1	33	1	14	1	22	2	11
	BCA0453L							1	12
	BAC0454					2	11	1	10
	BCA0455			2	13	1	13	1	16
	BCA0456L							2	11
	BCA0457							2	10
	BCA0458							1	10
	BCA0459L					2	11	1	1
	<b>Total</b>	<b>3</b>	<b>14</b>	<b>5</b>	<b>13</b>	<b>9</b>	<b>10</b>	<b>19</b>	<b>10</b>

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes, labs, clinicals, private/performance, open lab, co-op, DIS, and internships.

Source: IR Program Assessment Data

## Average Class Size By Instructional Method

Instructional Method	Sections	2017-2018 Avg. Size
IS	5	1
Lecture	23	14
<b>Grand Total</b>	<b>28</b>	<b>12</b>

## Overall Average Class Size by Campus

Major and Instructional Method	Campus	2017-2018	
		Sections	Avg. Size
1070 - PLUMBERS APPRENTICE - UNION	ATC	4	1
	Daytona	24	14
Total		28	12

## Performance Funding - Retention Rates

Program and Year		Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		Total Retained
					N	%	N	%	%
1070 PLUMBERS APPRENTICE - UN	2011	31	0	31	0	0.00%	12	38.71%	38.71%
	2012	13	3	10	0	0.00%	10	100.00%	100.00%
	2013	10	4	6	0	0.00%	6	100.00%	100.00%
	2014	6	5	1	0	0.00%	0	0.00%	0.00%
	2015	25	0	25	0	0.00%	20	80.00%	80.00%
	2016	35	0	35	0	0.00%	31	89.00%	89.00%

### College average (67.1%)

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

## Retention Rates by Race/Ethnicity

Major	Cohort	Race/Ethnicity	Registered	Exclusions	Adjusted Cohort	Retained by Program	
						N	%
1070 PLUMBERS APPRENTICE – UN	FA15 to FA16	Black	3	0	3	2	66.6%
		Hispanic	1	0	1	1	100%
		White	21	0	21	17	81%
	FA16 to FA17	Asian	1	0	1	0	0%
		Black	2	0	2	2	100%
		Hispanic	2	0	2	2	100%
		Two or More Races	1	0	1	1	100%
		White	27	0	27	24	89%

**College average (African American: 49.9%, Hispanic: 66.3%)**

Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.

Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.

Adjusted Cohort - Registered students less exclusions.

Not retained - Students who were not registered the following fall term.

Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.

Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data



## Performance Funding - Placement Rates (College average: 95.5%)

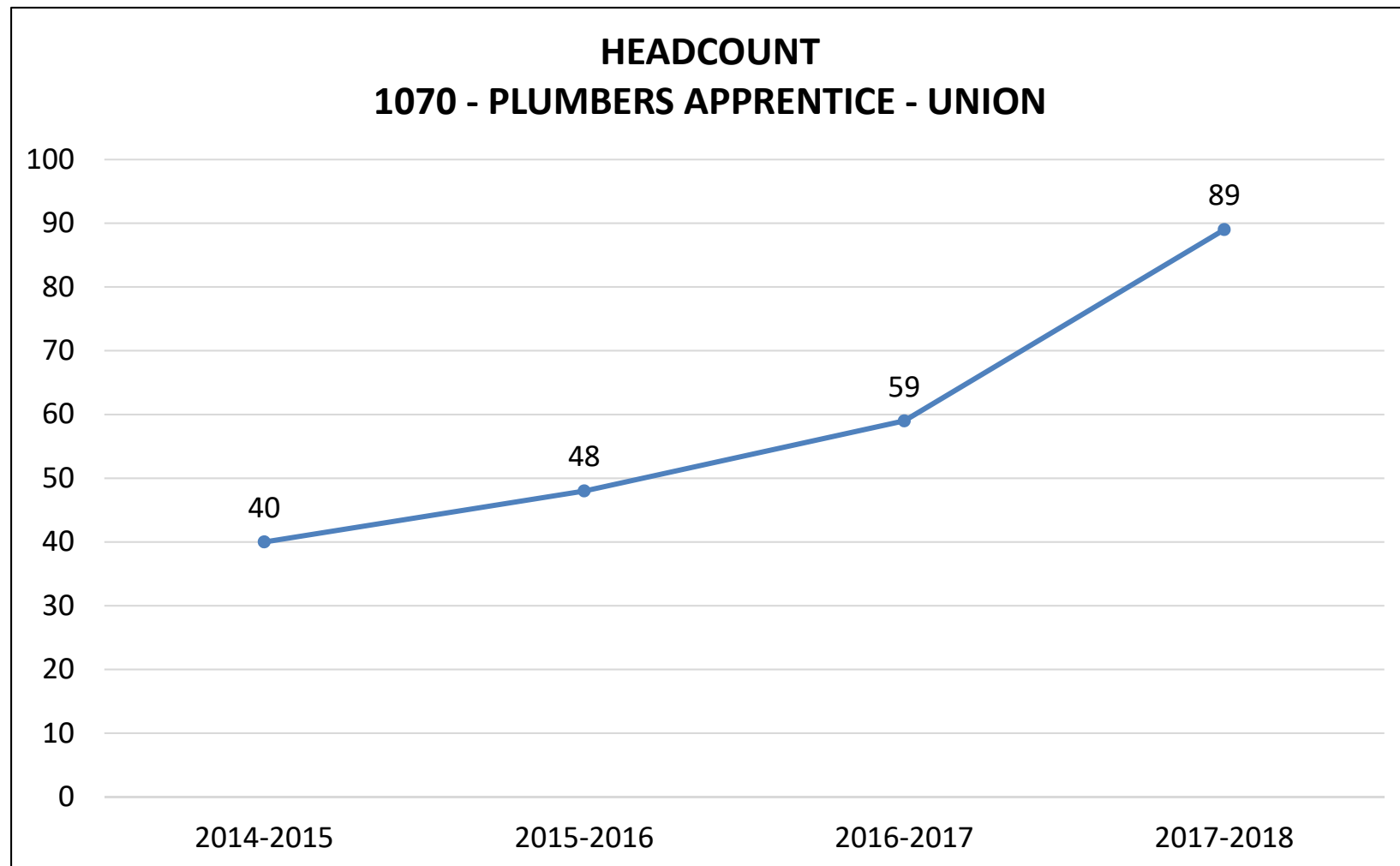
Program	Major	2011/12		2012/13		2013/14		2014/15		2015/16		2016/17		Average Annual Salary
		DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	DSC %	FCS %	
PLUMBERS APPRENTICE UNION	1070	40%	57%	71%	85%	100%	100%	100%	100%	100%	100%	N/A	89%	N/A

■ Indicates the College average above the State Averages  
■ Indicates the College average same as the State Averages  
■ Indicates the College average below the State Averages

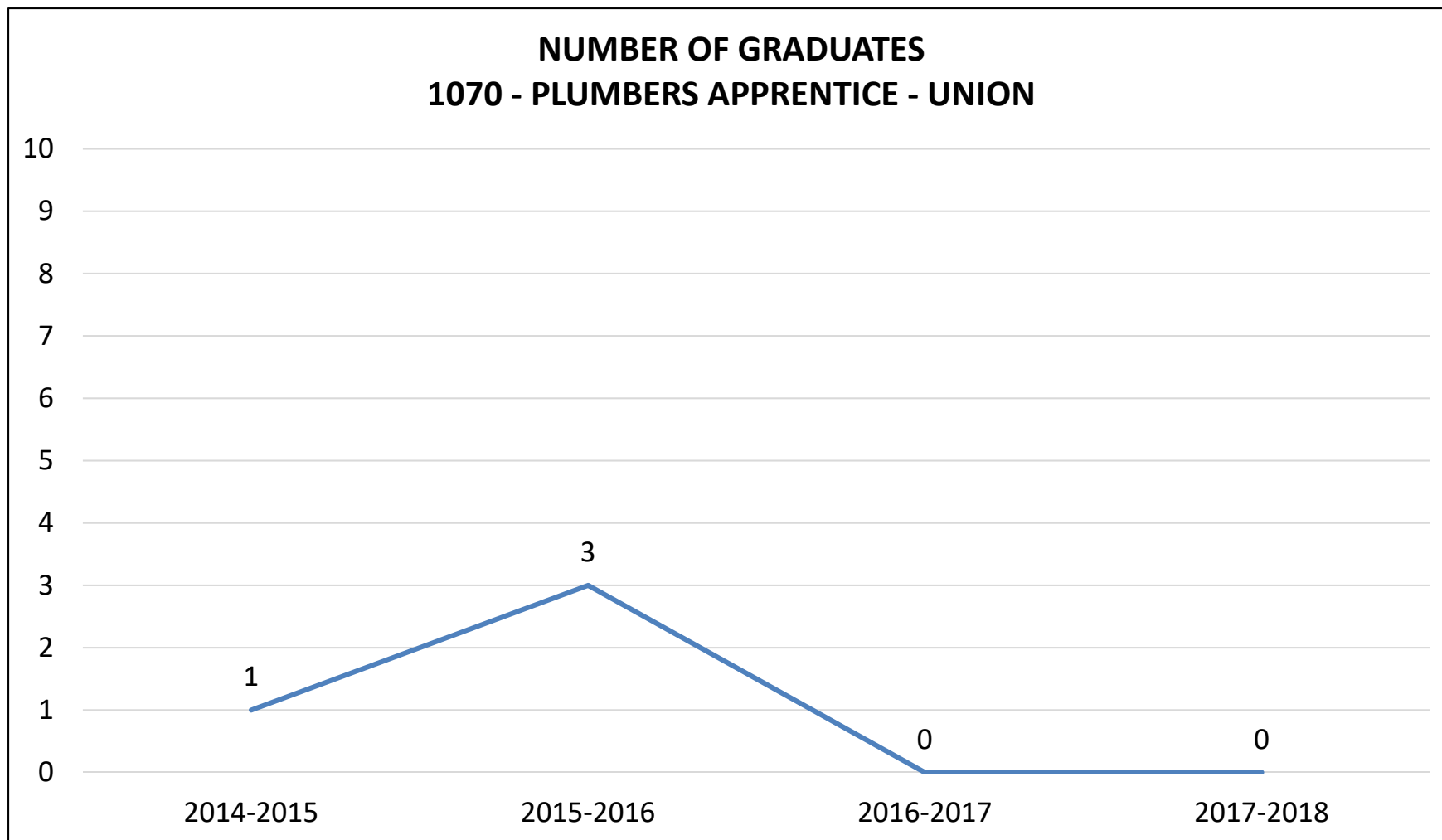
\*Currently Inactive Program

N/A - No placement data for the program.

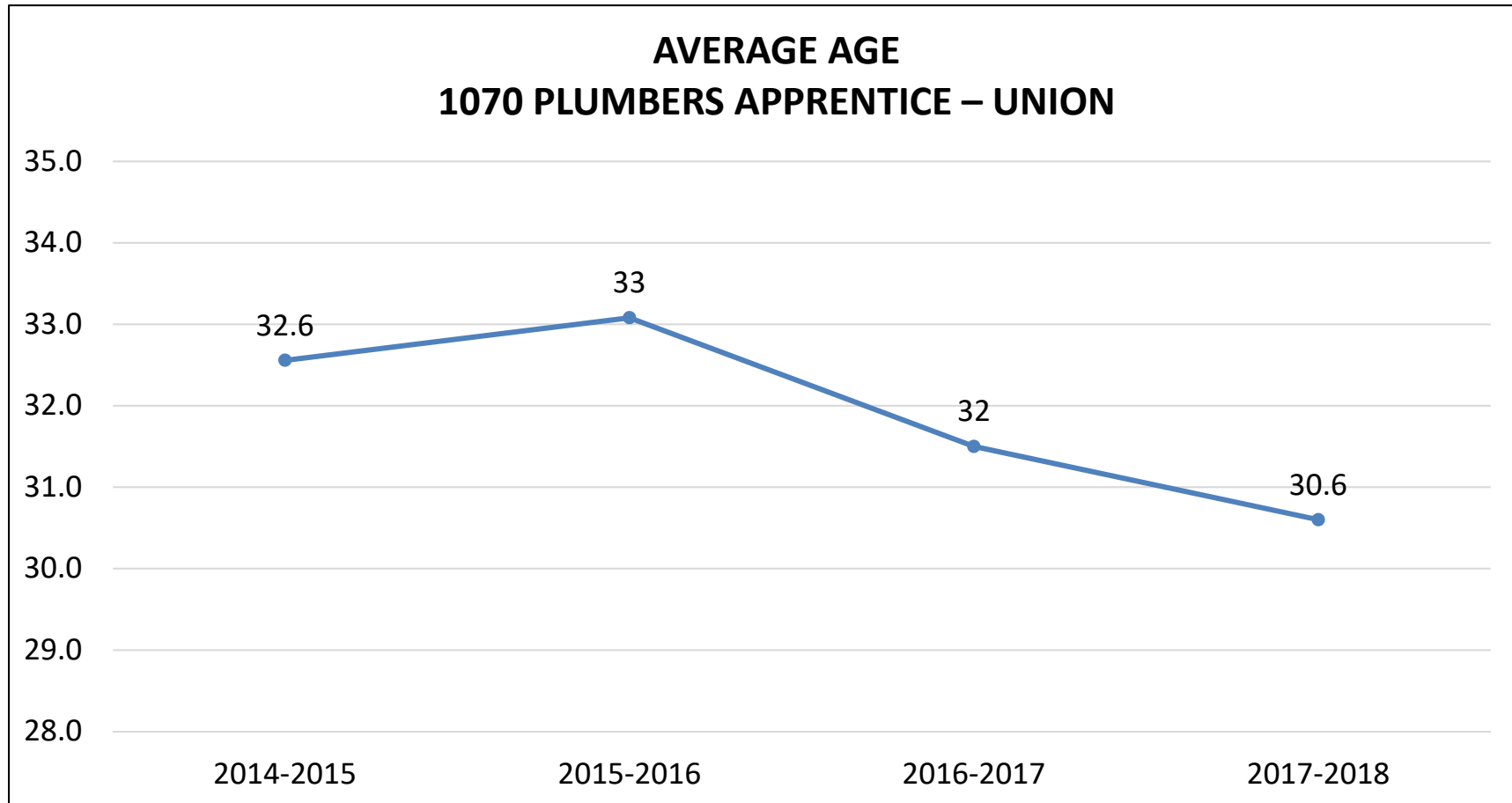
\$\*\*,\*\*\* Less than 10 graduates found employed.



College Enrollment Decreased: 0.7%(14/15); 1.15% (15/16); 3.7%(16/17); 0.7%(17/18)



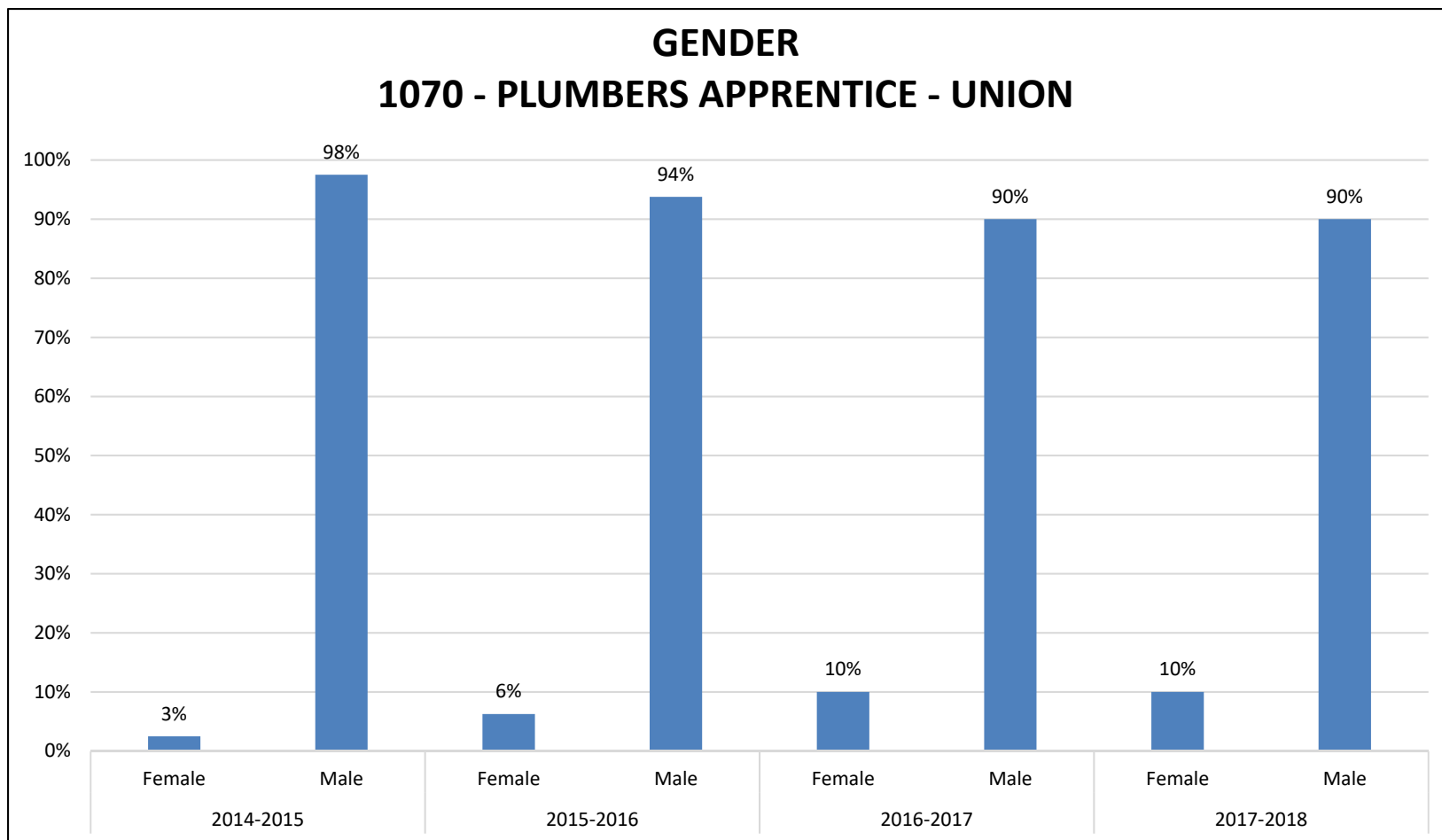
Source: IR Program Assessment Data



	2014-2015	2015-2016	2016-2017	2017-2018
<b>Daytona State College</b>	<b>26.4</b>	<b>26</b>	<b>27</b>	<b>27</b>

Calculation excludes individuals whose birthdates are not reported.

Source: IR Program Assessment Data

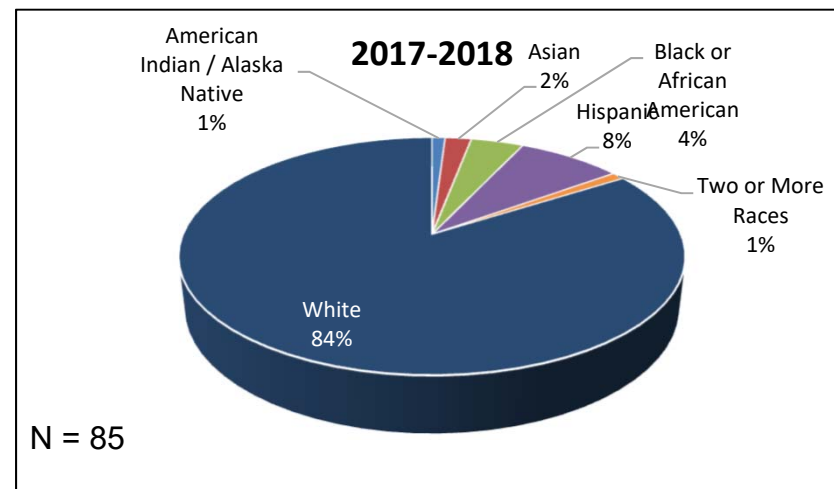
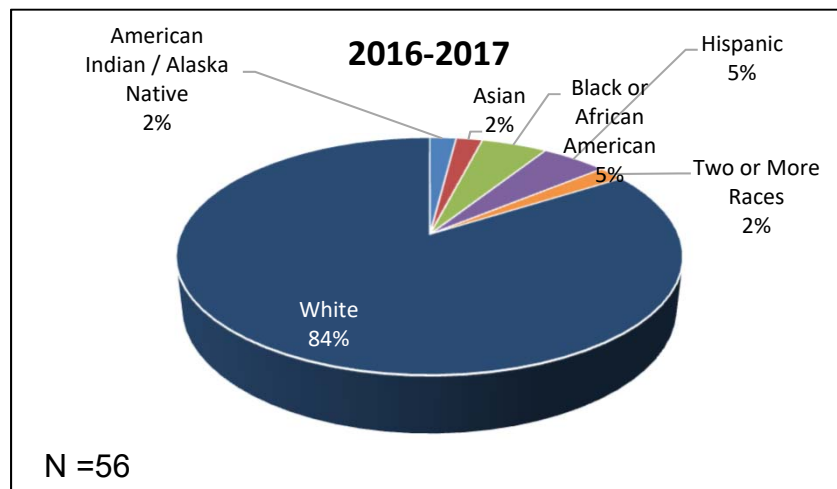
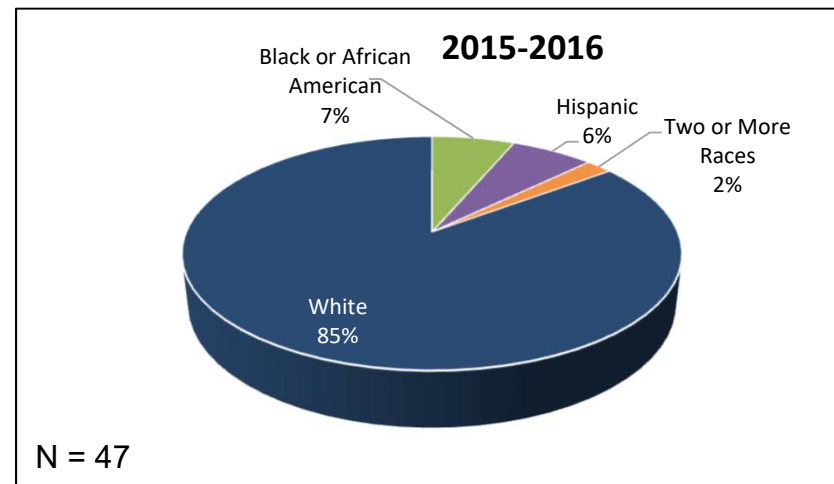
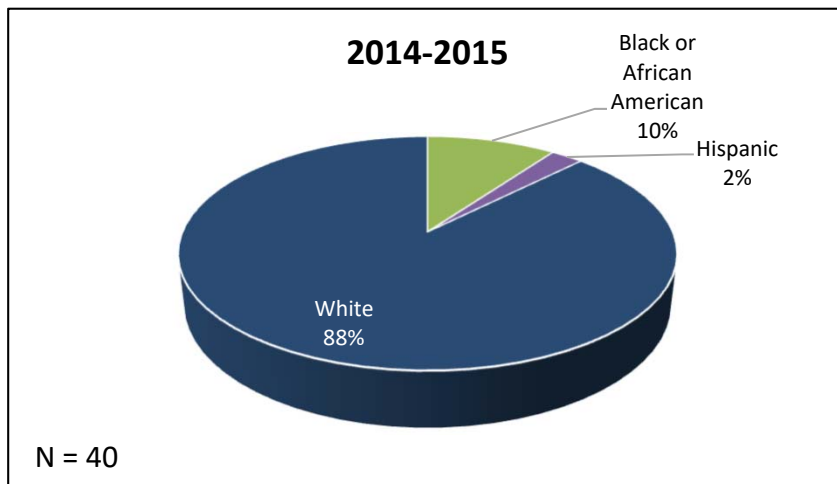


Major	2014-2015		2015-2016		2016-2017		2017-2018	
	Female	Male	Female	Male	Female	Male	Female	Male
<b>Daytona State College</b>	<b>60%</b>	<b>40%</b>	<b>60%</b>	<b>40%</b>	<b>60%</b>	<b>40%</b>	<b>58%</b>	<b>39%</b>

Excludes individuals whose gender is not reported.

Source: IR Program Assessment Data

## Race / Ethnicity by Program



DSC Averages 2017-2018			
Black or African Amer	Hispanic	2 or More Races	White
14%	19%	3%	59%

Blank cells or missing years indicate no enrollment.  
Excludes individuals whose race / ethnicity is not reported.

Source: IR Program Assessment Data