

ASSESSMENT DAY

College of Business, Engineering and Technology

School of Engineering Technology

March 6, 2017

Academic Assessment

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

Programs

[6334 - Bachelor of Science Information Technology - BSIT](#)

[3002 - Cybersecurity and Cyberforensics](#)

[3003 - Web Systems Software Development](#)

Action Items from Last Assessment Day

Assessment Day (02/23/2016)

Institutional Effectiveness:

1. Student with disability data.

School of Engineering Technology:

1. Develop policy for statute of limitation for retaking courses or changing catalog year;
2. Develop an Alumni database;
3. Develop alumni survey;
4. Frequent and continuous communication with IAB to review and provide feedback in terms of assessment instruments and others in a formalized process;
5. Emphasize the business and quality side of engineering.

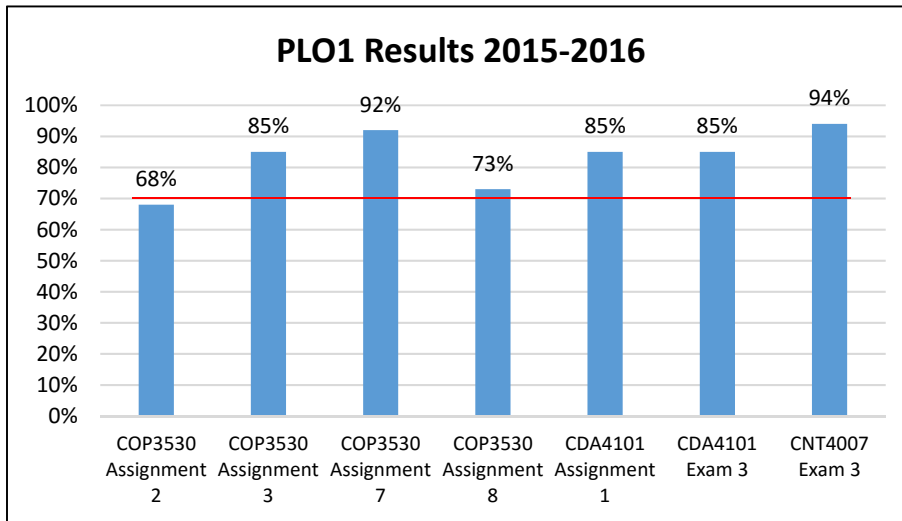
Program Learning Outcomes

Bachelor of Science in Information Technology (BSIT) - 6334

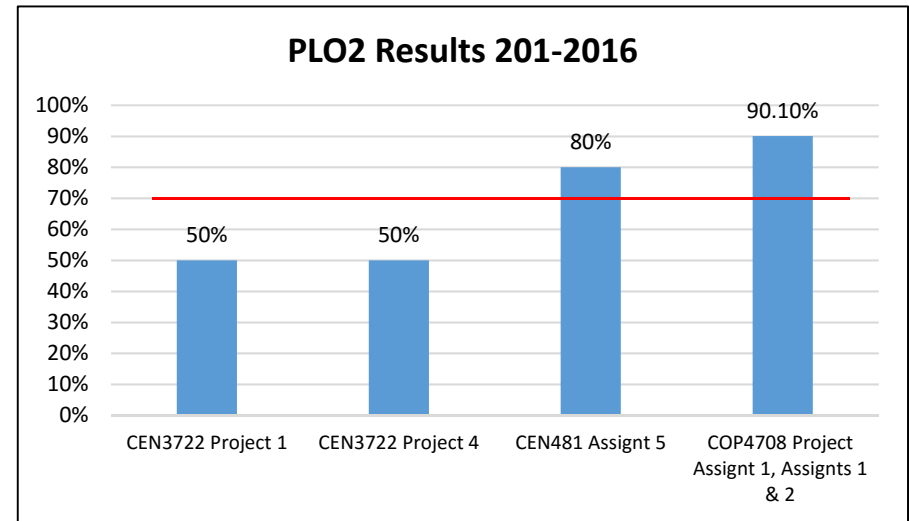
Graduates of the program will be able to:

1. Demonstrate an ability to apply knowledge of computing and mathematics appropriate to the discipline,
2. Demonstrate an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution,
3. Demonstrate an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs,
4. Demonstrate an ability to function effectively on teams to accomplish a common goal,
5. Demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities,
6. Demonstrate an ability to communicate effectively with a range of audiences,
7. Demonstrate an ability to analyze the local and global impact of computing on individuals, organizations, and society,
8. Recognize the need for and an ability to engage in continuing professional development,
9. Demonstrate an ability to use current techniques, skills, and tools necessary for computing practice,
10. Demonstrate an ability to use and apply current technical concepts and practices in the core information technologies,
11. Demonstrate an ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems,
12. Demonstrate an ability to effectively integrate IT-based solutions into the user environment,
13. Demonstrate an understanding of best practices and standards and their application,
14. Demonstrate an ability to assist in the creation of an effective project plan.

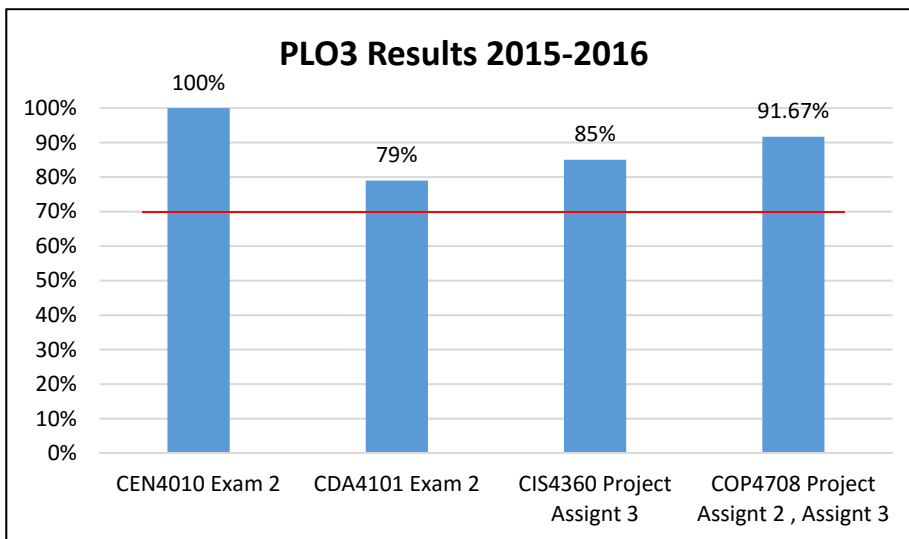
Assessment Results 2015-2016



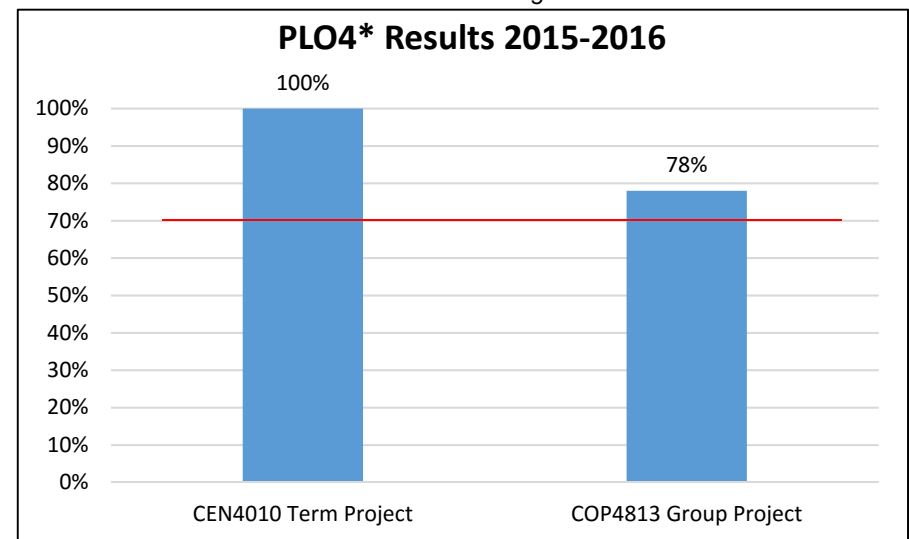
PLO1: Demonstrate an ability to apply knowledge of computing and mathematics appropriate to the discipline. *Target: 70% of students will achieve 70% or higher.*



PLO 2: Demonstrate an ability to analyze a problem, and identify and define the computing requirements appropriate to its solution. *Target: 70% of students will achieve 70% or higher.*

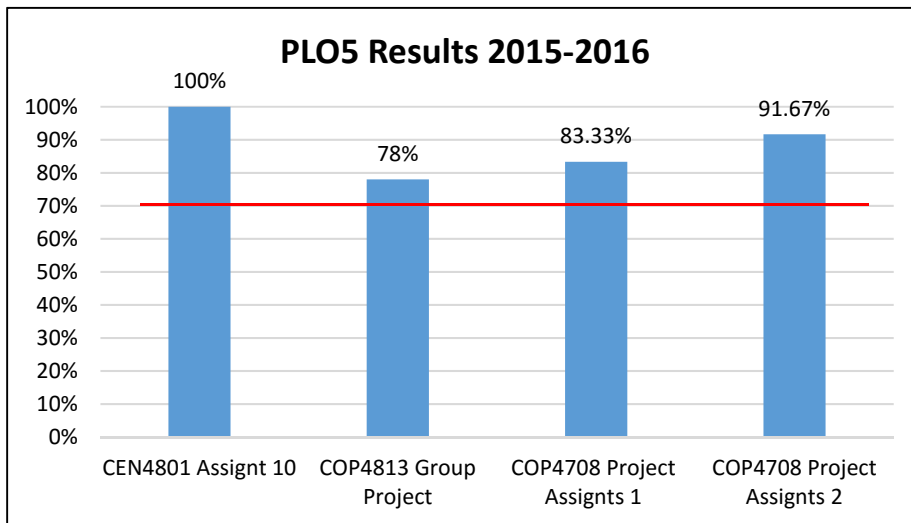


PLO 3: Demonstrate an ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs. *Target: 70% of students will achieve 70% or higher.*

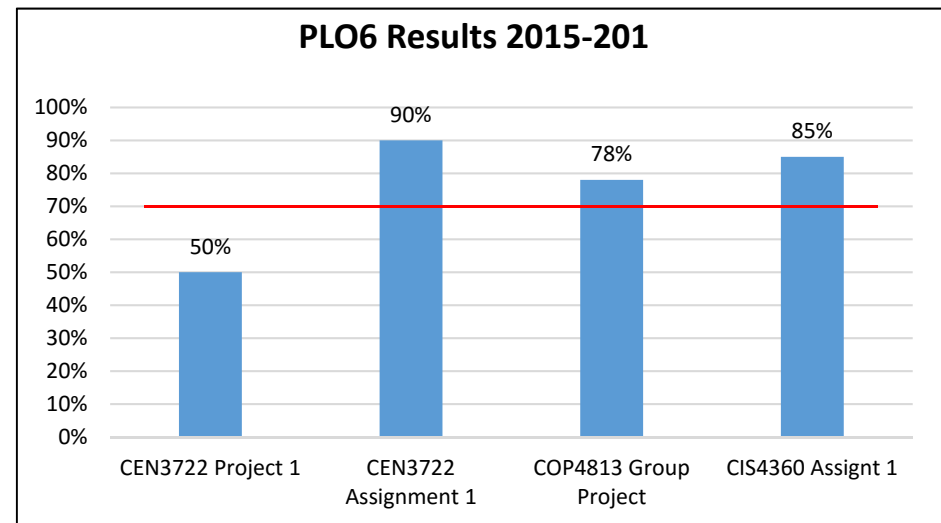


PLO 4: Demonstrate an ability to function effectively on teams to accomplish a common goal. *Target: 70% of students will achieve 70% or higher.*
*Missing one assessment measure

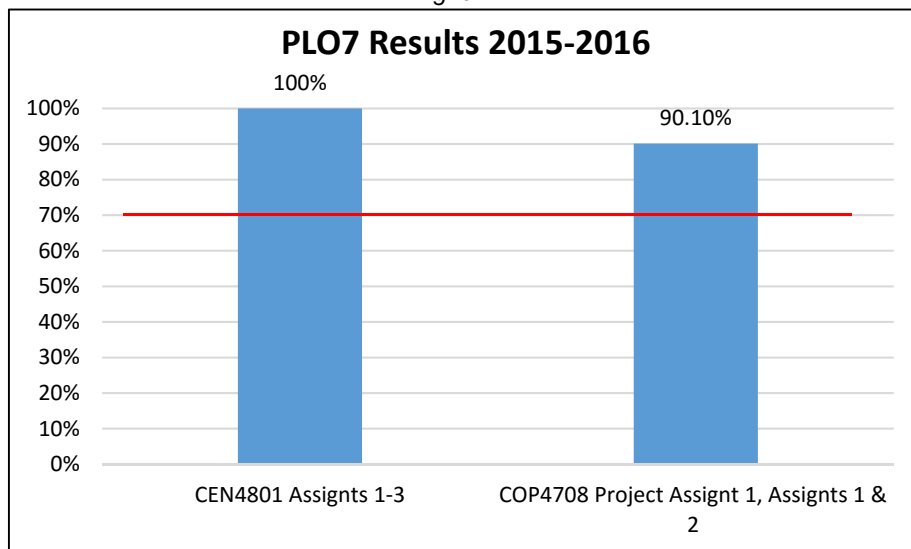
Assessment Results 2015-2016



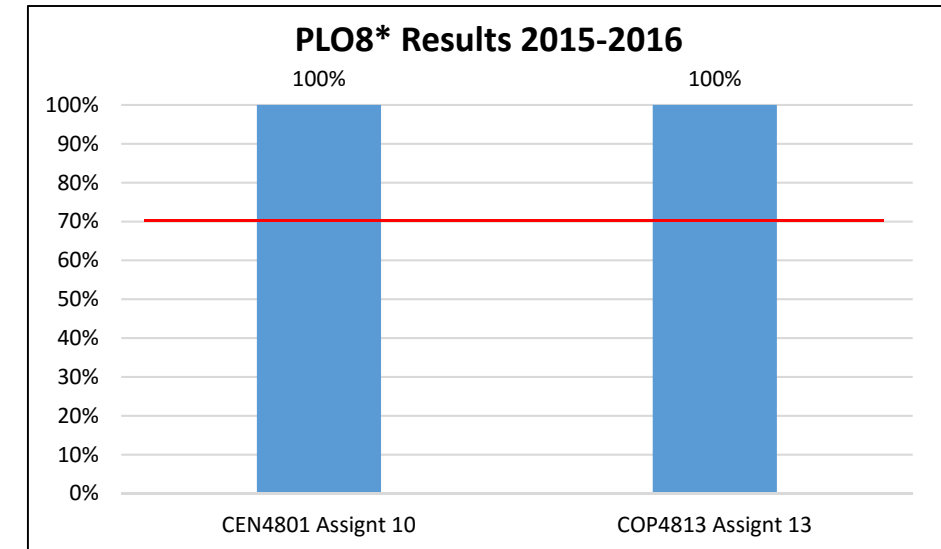
PLO 5: Demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities. *Target: 70% of students will achieve 70% or higher.*



PLO 6: Demonstrate an ability to communicate effectively with a range of audiences. *Target: 70% of students will achieve 70% or higher.*

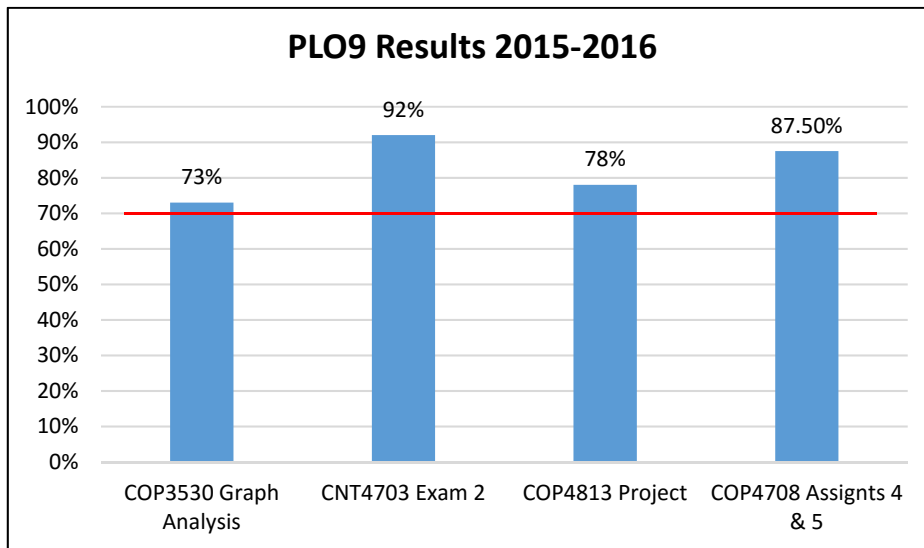


PLO7: Demonstrate an ability to analyze the local and global impact of computing on individuals, organizations, and society. *Target: 70% of students will achieve 70% or higher.*

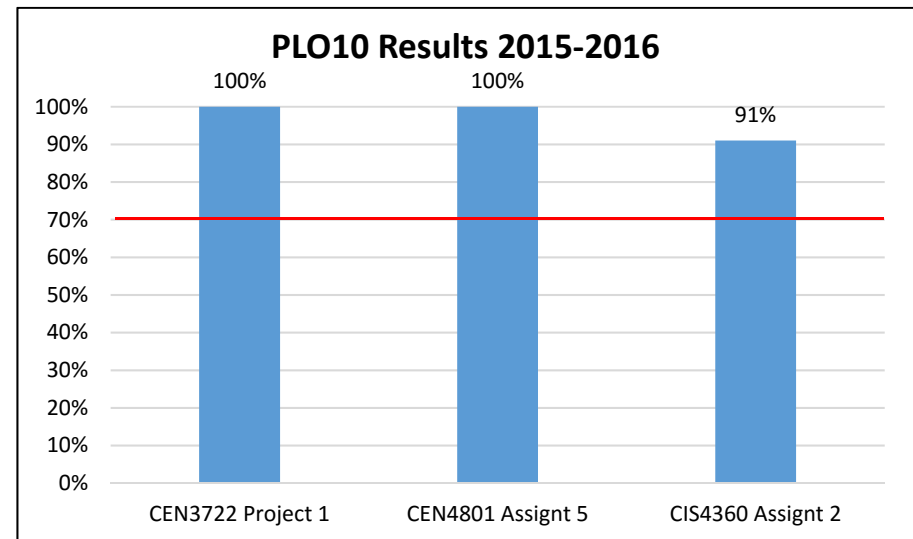


PLO8: Recognize the need for and an ability to engage in continuing professional development. *Target: 70% of students will achieve 70% or higher.*
* Missing one assessment measure

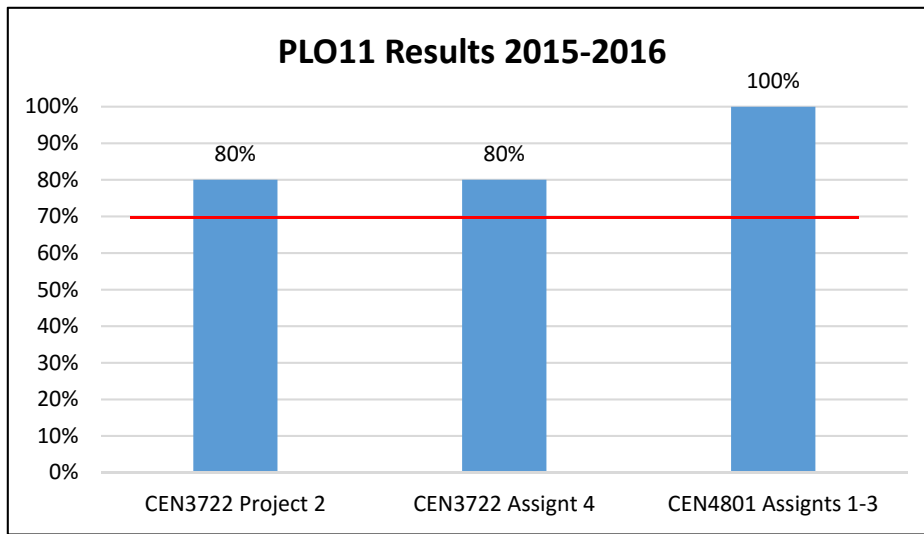
Assessment Results 2015-2016



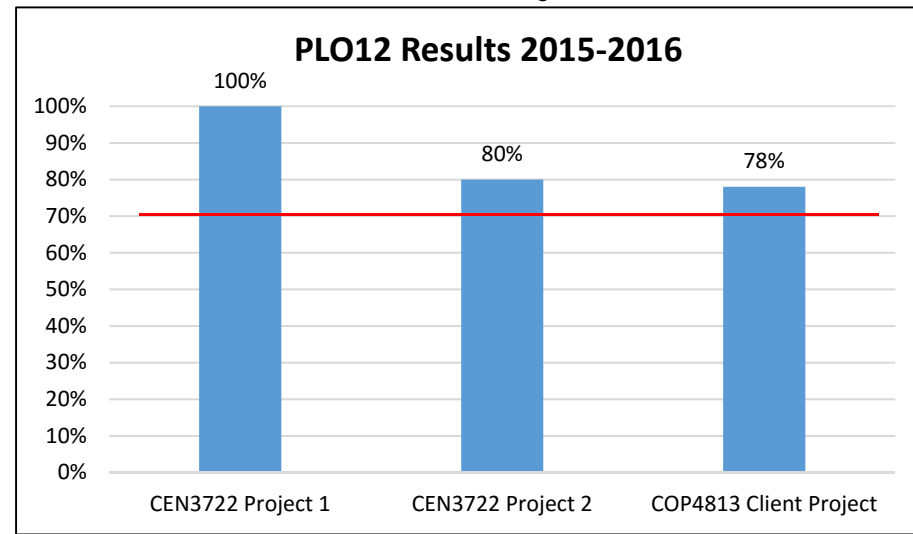
PLO9: Demonstrate an ability to use current techniques, skills, and tools necessary for computing practice. *Target: 70% of students will achieve 70% or higher*



PLO10: Demonstrate an ability to use and apply current technical concepts and practices in the core information technologies. *Target: 70% of students will achieve 70% or higher*



PLO11: Demonstrate an ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems. *Target: 70% of students will achieve 70% or higher*

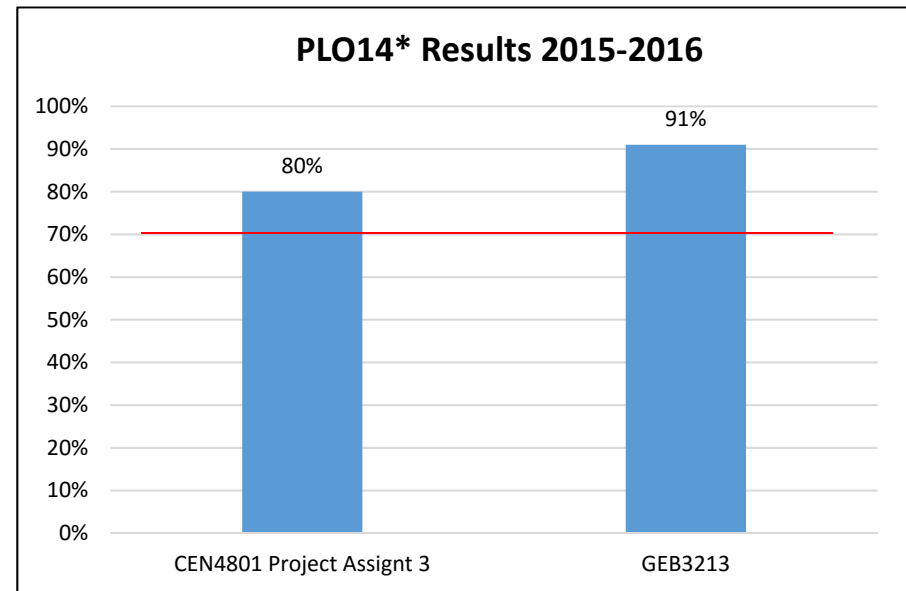


PLO12: Demonstrate an ability to effectively integrate IT-based solutions into the user environment. *Target: 70% of students will achieve 70% or higher*

Assessment Results 2015-2016



PLO13: Demonstrate an understanding of best practices and standards and their application. *Target: 70% of students will achieve 70% or higher*



PLO14: Demonstrate an ability to assist in the creation of an effective project plan. *Target: 70% of students will achieve 70% or higher. * Missing two assessment measures*

Assessment Data 2014-2015 and 2015-2016: Programs and Institutional Learning Outcomes

Program	Critical/ Creative Thinking		Communication		Cultural Literacy		Information and Technical Literacy	
	14/15	15/16	14/15	15/16	14/15	15/16	14/15	15/16
Bachelor of Science in Information Technology (BSIT) - 6334	NR	91%-92%	NR	50%-90%	NR	78%-100%	NR	78%-100%
3002 - Cybersecurity and Cyberforensics	*	NR	*	NR	*	NR	*	NR

* *New Program*
NR: *No reported*

Course Success Rates

Major	Course	2012-2013		2013-2014		2014-2015		2015-2016		
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	
6332/6334- BS Information Technology	CDA4101							52	81%	
	CEN4010							25	92%	
	DEN4801							11	82%	
	CET3010	82	91%	90	82%	93	84%	20	100%	
	CET3116	82	70%	70	69%	98	67%	80	54%	
	CET3383	53	92%	56	79%	42	90%			
	CET3679	45	98%	52	98%	54	93%	24	100%	
	CET4333	40	90%	44	73%	48	92%			
	CET4483	48	81%	58	67%	50	68%			
	CET4505	53	96%	51	88%	47	91%			
	CET4663	34	79%	44	66%	62	60%			
	CET4748	34	100%	35	100%	41	98%	24	92%	
	CET4860	21	90%	13	92%	32	84%	37	70%	
	CET4861	17	94%	8	88%	12	92%	16	88%	
	CET4862	18	78%	17	88%	12	75%	21	100%	
	CET4884	11	91%	14	93%	33	94%	25	100%	
	CET4885	20	100%	<i>No more offering</i>						
	CIS4250							11	91%	
	CIS4360							72	72%	
	CNT3104							34	94%	
	CNT4007							46	67%	
	CNT4703							6	83%	
	COP3530							88	47%	
	COP4610							71	96%	
	COP4708	51	92%	67	97%	70	91%	67	91%	
	COP4709	19	89%	19	79%	16	56%	11	55%	
	COP4813	35	86%	34	62%	73	77%	57	75%	
	COP4834	8	75%	17	76%	18	67%	12	58%	
	COT3100			47	89%	76	84%	94	90%	
	CTS3348	59	81%	81	75%	91	75%	85	82%	
Major		730	88%	817	81%	968	81%	989	79%	

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 by Multiple Session/Sub-session Only (1 of 2)

Major, Associated Courses and Sub-session			2012-2013		2013-2014		2014-2015		2015-2016		
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	
6332 - BS Information Technology	CDA4101	FA Full term							22	77%	
		SP Full term							30	83%	
		Course								52	81%
	CET3010	FA Full term	27	78%	34	74%	35	83%			
		SP Full term	32	100%	26	85%	31	81%			
		SU Full term	23	96%	30	90%	27	89%			
		Course	82	91%	90	82%	93	84%			
	CET3116	FA Full term	33	79%	28	54%	32	59%	34	47%	
		SP Full term	31	58%	28	79%	36	69%	30	60%	
		SU Full term	18	72%	14	79%	30	73%	16	56%	
		Course	82	70%	70	69%	98	67%	80	54%	
	CET3383	FA Full term	27	96%	29	79%					
		SP Full term	26	88%	27	78%	42	90%			
		Course	53	92%	56	79%	42	90%			
	CET3679	FA Full term	28	96%	37	97%	35	91%			
		SU Full term	17	100%	15	100%	19	95%			
		Course	45	98%	52	98%	54	93%			
	CET4333	FA Full term			25	72%	22	95%			
		SP Full term	40	90%	19	74%	26	88%			
		Course	40	90%	44	73%	48	92%			
CET4483	FA Full term	13	85%	25	60%	14	71%				
	SP Full term	35	80%	33	73%	36	67%				
	Course	48	81%	58	67%	50	68%				
CET4505	FA Full term	29	97%	26	88%	30	97%				
	SP Full term	24	96%	25	88%	17	82%				
	Course	53	96%	51	88%	47	91%				
CET4663	FA Full term			18	72%	33	58%				
	SP Full term	34	79%	26	62%	29	62%				
	Course	34	79%	44	66%	62	60%				
CET4748	FA B term					4	100%				
	SU Full term	34	100%	35	100%	37	97%				
	Course	34	100%	35	100%	41	98%				
CET4860	FA Full term			6	100%	14	79%	22	64%		
	SP Full term	21	90%	7	86%	18	89%	15	80%		
	Course	21	90%	13	92%	32	84%	37	70%		
CET4861	FA Full term	17	94%	8	88%			4	75%		
	SP Full term					12	92%	12	92%		
	Course	17	94%	8	88%	12	92%	16	88%		

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 Rates by Multiple Session/Sub-session Only (2 of 2)

Major, Associated Courses and Sub-session			2012-2013		2013-2014		2014-2015		2015-2016		
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	
6332 - BS Information Technology	CET4862	FA Full term	18	78%	8	88%	12	75%	10	100%	↑
		SP Full term			9	89%			6	100%	
		SU Full term							5	100%	
		Course	18	78%	17	88%	12	75%	21	100%	↑
	CET4884	FA Full term			4	100%					↑
		SP Full term	11	91%	10	90%	13	85%	8	100%	↑
		SU Full term					20	100%	17	100%	
		Course	11	91%	14	93%	33	94%	25	100%	↑
	CIS4360	FA Full term							33	70%	
		SP Full term							39	74%	
		Course							72	72%	
	CNT4007	FA Full term							11	64%	
		SP Full term							35	69%	
		Course							46	67%	
	COP3530	FA Full term							29	45%	
		SP Full term							43	49%	
		SU Full term							16	44%	
		Course							88	47%	
	COP4610	FA Full term							32	94%	
		SP Full term							39	97%	
Course								71	96%		
COP4708	FA Full term	20	95%	28	100%	30	90%	24	92%	↑	
	SP Full term	19	84%	21	90%	24	88%	29	100%		
	SU Full term	12	100%	18	100%	16	100%	14	71%		
	Course	51	92%	67	97%	70	91%	67	91%		
COP4834	SP Full term			12	67%	18	67%				
	SU Full term	8	75%	5	100%						
	Course	8	75%	17	76%	18	67%				
COT3100	FA Full term			1	100%			46	93%		
	SP Full term			46	89%	76	84%	48	88%	↑	
	Course			47	89%	76	84%	94	90%		
CTS3348	FA Full term	25	76%	31	71%	40	70%	43	88%		
	SP Full term	22	82%	33	79%	51	78%	31	77%		
	SU Full term	12	92%	17	76%			11	73%		
	Course	59	81%	81	75%	91	75%	85	82%		

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

Average Class Size by Course

Major and Associated Courses		2012-2013		2013-2014		2014-2015		2015-2016		
		Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size	Sections	Avg. Size	
6332/6334 Engineering Tech- IT	CDA4101							2	26	
	CEN4010							1	25	
	CEN4801							1	11	
	CET3010	4	21	3	30	3	31	1	20	
	CET3116	4	21	4	18	3	33	3	27	
	CET3383	2	27	2	28	1	42			
	CET3679	2	23	3	17	2	27	1	24	
	CET4333	1	40	2	22	2	24			
	CET4483	2	24	2	29	2	25			
	CET4505	2	27	2	26	2	24			
	CET4663	1	34	2	22	2	31			
	CET4748	1	34	1	35	2	21	1	24	
	CET4860	1	21	2	7	2	16	2	19	
	CET4861	1	17	1	8	1	12	2	8	
	CET4862	1	18	2	9	1	12	3	7	
	CET4884	1	11	2	7	2	17	2	13	
	CET4885	1	20	<i>No more offering</i>						
	CIS4360							2	36	
	CNT3104							1	34	
	CNT4007							3	15	
	CNT4703							1	6	
	COP3530							3	29	
	COP4610							2	36	
	COP4708	3	17	3	22	3	23	3	22	
	COP4709	1	19	1	19	1	16	1	11	
	COP4813	1	35	1	34	1	73	1	57	
	COP4834	1	8	2	9	1	18	1	12	
	COT3100			2	24	2	38	2	47	
	CTS3348	3	20	3	27	2	46	3	28	
	Major	33	22	40	20	35	28	42	23	

To prevent data from skewing, the following instructional methods are excluded: Labs associated with lectures, Private/Performance, Clinicals, Co-op, DIS, Field trips and Internships.

Source: IR Program Assessment Data

Performance Funding - Graduation Rates

Major	Fall Cohort Year	# in Cohort	150% Graduates	150% Graduation Rate	200% Graduates	200% Graduation Rate
6332- Engineering Tech- IT	2010	57	26	45.6%	30	52.6%
	2011	43	16	37.2%	21	48.8%
	2012 – In progress	33	3	9.1%	3	9.1%
	2013 – In progress	21	4	19.0%	4	19.0%

Less than College average (150%- 44.8%, 200%- 49.23%)

Fall terms include prior Summer term enrollment in major.

Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

Performance Funding - Retention Rates

Program and Cohort Year	Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		DSC Total Retained
				N	%	N	%	
2011	123	18	104	1	0.96%	80	76.92%	77.88%
2012	169	31	138	6	4.35%	82	56.42%	60.77%
2013	165	15	150	58	38.67%	38	25.33%	64.00%
2014	200	27	174	13	8.05%	95	54.60%	62.65%

Less than College average (FT- 60.48%, PT- 52.08%)

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

Headcount by Major

Major	2012-2013	2013-2014	2014-2015	2015-2016
3002 - CYBERSEC./CYBERFORENSIC			6	9
6332 - BS-ENGR TECH - IT	234	188	80	19
6334 - BS-INFO TECH - BSIT		60	225	252
Department Total	397	429	468	474

College Enrollment Decreased: 7.9%(12/13); 3%(13/14); 0.73%(14/15); 1.14% (15/16)

Graduates in Major

Major	2012-2013	2013-2014	2014-2015	2015-2016
3002 - Cybersec./Cyberforensic			4	15
6332 - BS-Engr. Tech - IT	36	19	19	9
6334 - BS-Info Tech - BSIT		7	13	24
Department Total	65	47	64	73

Blank cells or missing years indicate no graduates.

Average Age by Program

Program	2012-2013	2013-2014	2014-2015	2015-2016
3002 - Cybersec./Cyberforensic			29.0	34.0
6334 - BS-Info Tech - BSIT		31.8	31.1	32.0

Calculation excludes individuals whose birthdates are not reported.

	2012-2013	2013-2014	2014-2015	2015-2016
All Programs	32	32	32	32
Daytona State College	26.7	26.6	26.4	26

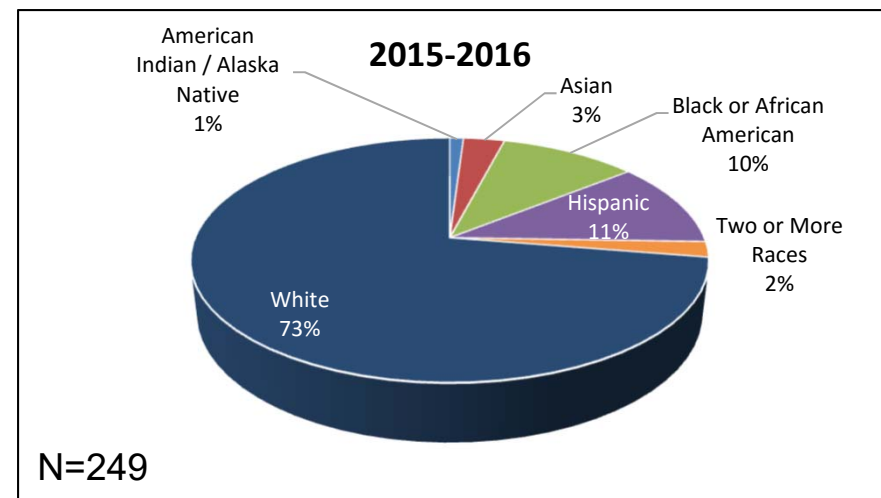
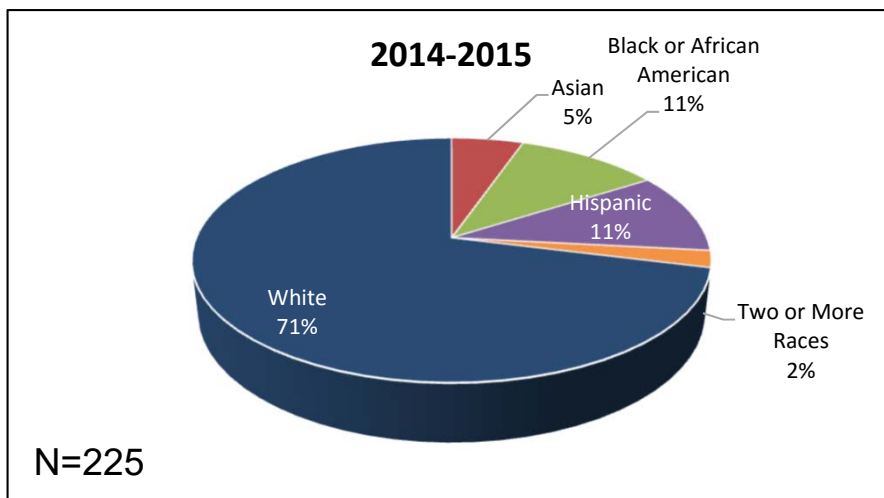
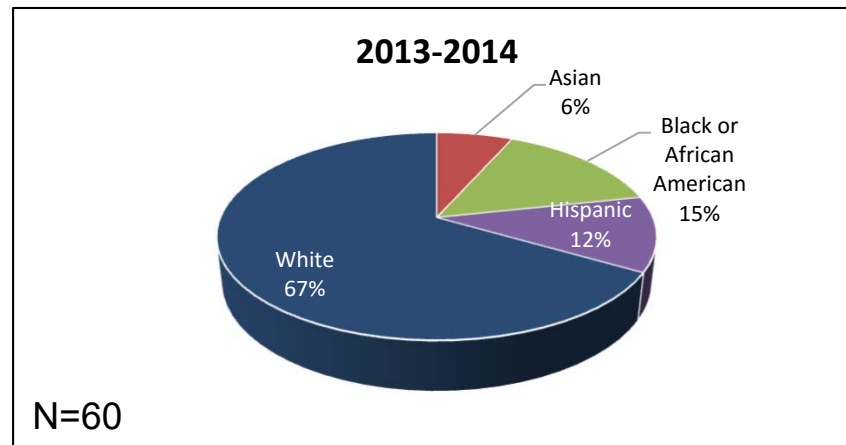
Gender

Program	2012-2013		2013-2014		2014-2015		2015-2016	
	Female	Male	Female	Male	Female	Male	Female	Male
3002 - Cybersec./Cyberforensic					100%		11%	89%
6334 - BS-Info Tech - BSIT			18%	82%	20%	80%	21%	79%

Blank cells or missing years indicate no enrollment. Excludes individuals whose gender is not reported.

Major	2012-2013		2013-2014		2014-2015		2015-2016	
	Female	Male	Female	Male	Female	Male	Female	Male
Daytona State College	60%	40%	59%	41%	60%	40%	60%	40%

Race / Ethnicity by Program 6334 – BS Information Tech BSIT

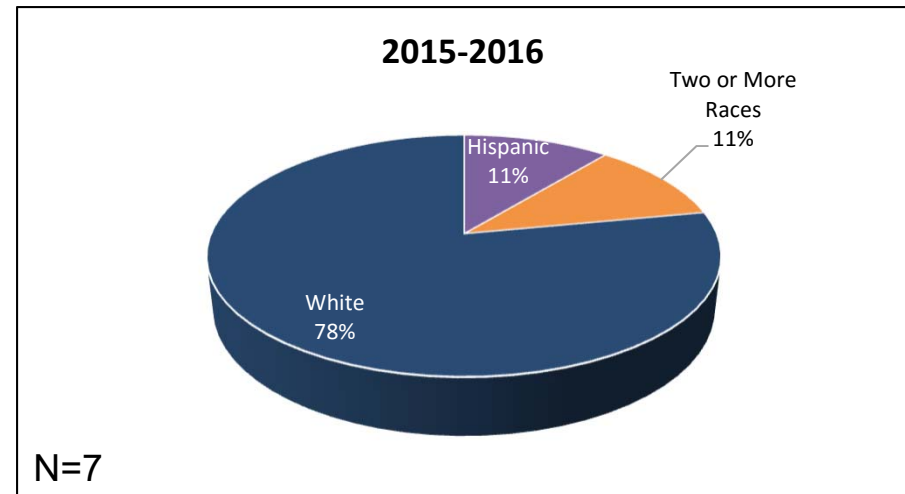
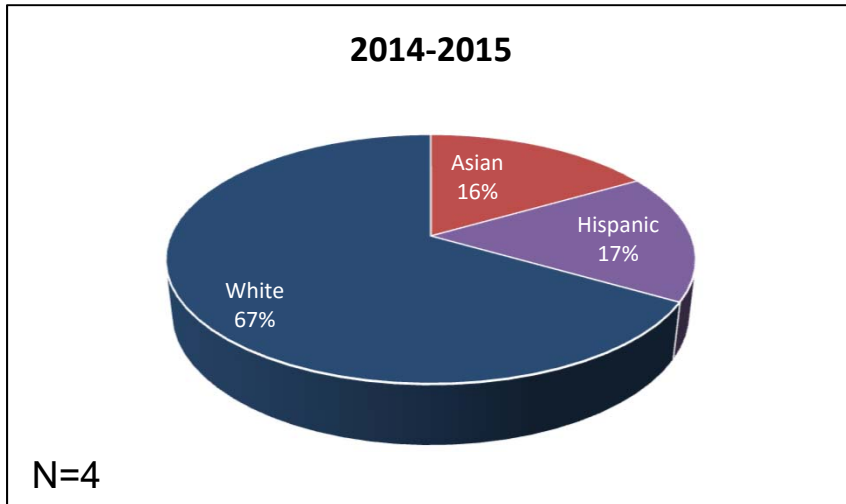


DSC Averages 2015-2016							
Amer Indian/ Alaska Native	Asian	Black or African Amer	Hispanic	Nat Hawaiian	Pacif Islander	2 or More Races	White
0%	2%	14%	14%	0%	0%	2%	66%

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

Source: IR Program Assessment Data

Race / Ethnicity by Program 3002 – Cybersecurity /Cyber Forensic

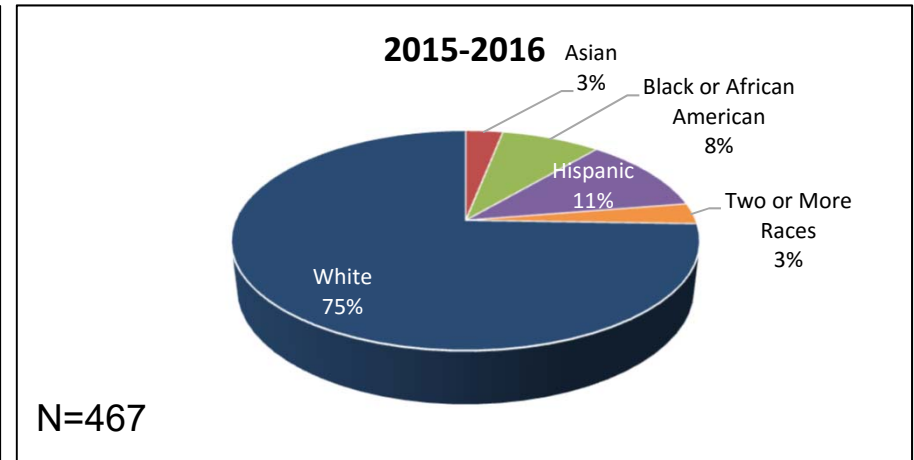
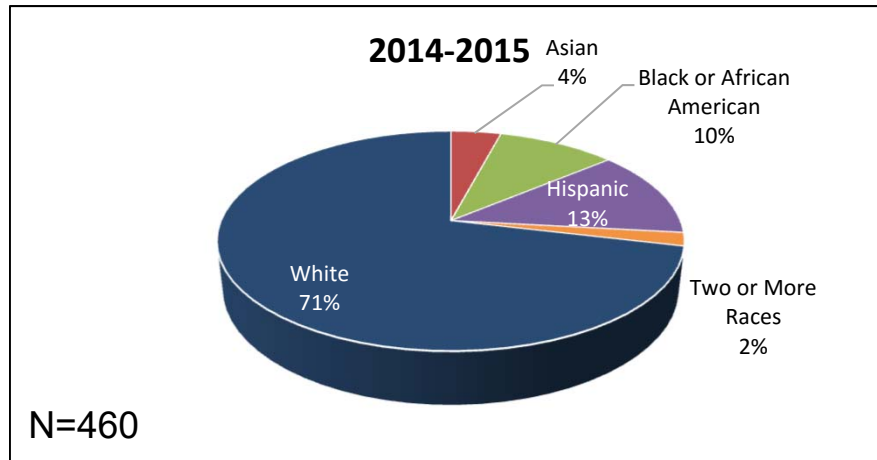
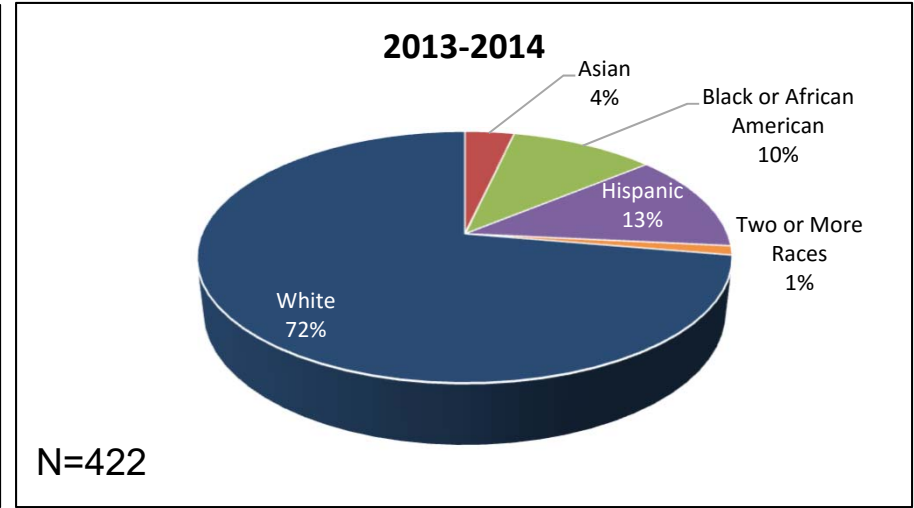
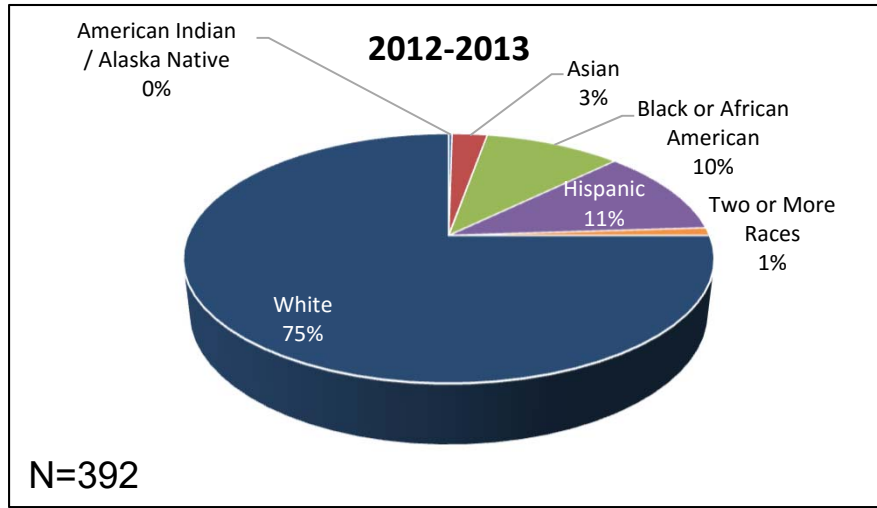


DSC Averages 2015-2016							
Amer Indian/ Alaska Native	Asian	Black or African Amer	Hispanic	Nat Hawaiian	Pacif Islander	2 or More Races	White
0%	2%	14%	14%	0%	0%	2%	66%

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

Source: IR Program Assessment Data

Race / Ethnicity by Program School of Engineering Technology



DSC Averages 2015-2016

Amer Indian/ Alaska Native	Asian	Black or African Amer	Hispanic	Nat Hawaiian	Pacif Islander	2 or More Races	White
0%	2%	14%	14%	0%	0%	3%	66%

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

Source: IR Program Assessment Data