

# ASSESSMENT DAY

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College of Business, Engineering and Technology  
School of Engineering and Information Technology  
BSIT

March 4, 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

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

[3002 - Cybersecurity and Cyberforensics](#)

[3003 - Web Systems Software Development](#)

# Action Items from Last Assessment Day

## *Assessment Day (03/26/2018)*

- Review CET3116 content and course offering
- Develop a Qualtrics alumni survey
- Review the statistics and programming pre-requirements
- Measure the courses that are part of the certificates, and include them in the assessment report
- ABET report (July) prior to ABET's visit (October)

## For Institutional Research:

- Clearinghouse data (IR)
- List of students' retention by race/ethnicity FA-FA (IR)

# Program Learning Outcomes

## **Bachelor of Science in Information Technology (BSIT) - 6334**

Graduates of the program will be able to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems.

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# Program Learning Outcomes

## **Cybersecurity and Cyberforensics Certificate- 3002**

Graduates of the program will be able to:

1. Conduct a password audit.
2. Design a password security policy.
3. Identify elements of security policy.
4. Design and implement a firewall based on security risk management and policies.
5. Design and implement an intrusion detection system based on security policies.
6. Use cryptography and cryptographic protocols.
7. Identify anomalous network packets.
8. Create and verify a forensic image.
9. Recover evidence in a forensically sound manner.
10. Validate forensic tools.
11. Identify and manage computer and network incidents.
12. Use cryptography and cryptographic protocols.
13. Identify the function and purpose of malware.
14. Conduct a static and dynamic analysis of malware.
15. Conduct a hash analysis for known files.
16. Identify evidence of a server intrusion.

# Program Learning Outcomes

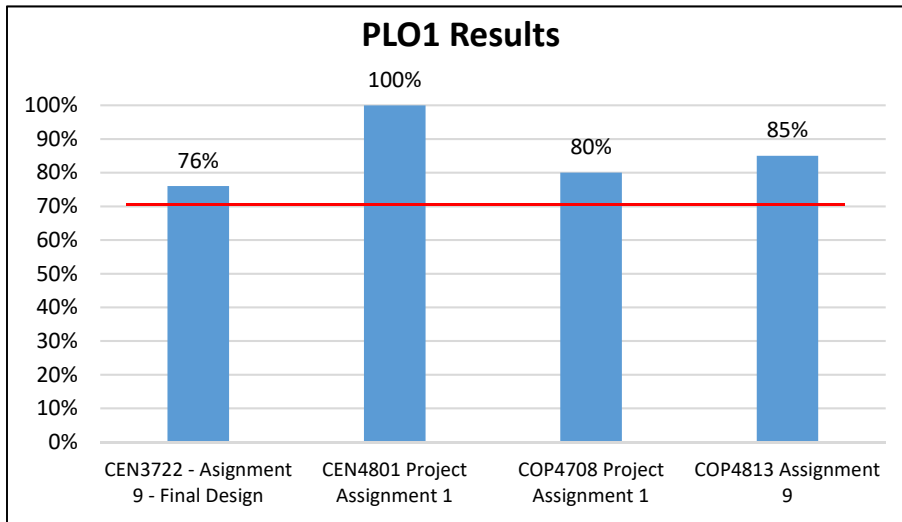
## **Web Systems Software Development 3003**

Graduates of the program will be able to:

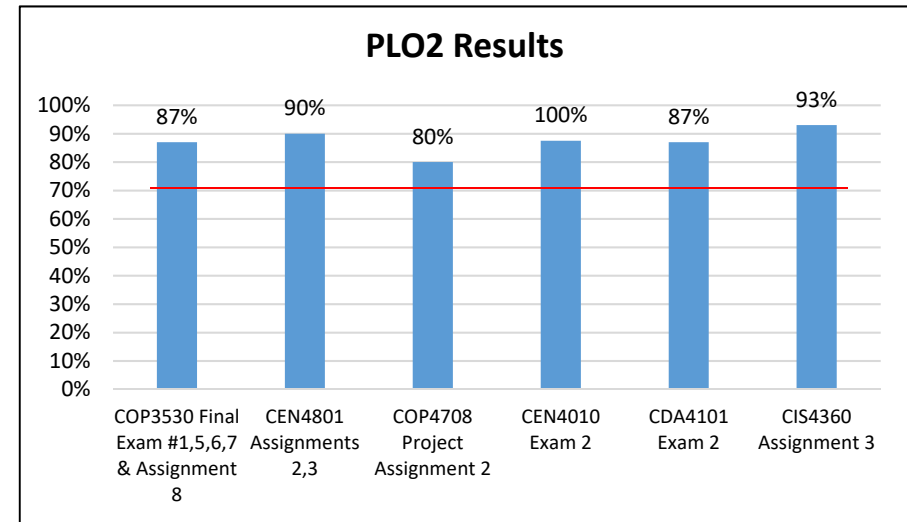
1. Implement internet based client server software systems.
2. Develop applications using modern web programming languages and technologies.
3. Design and implement database systems to support web applications.
4. Implement Software as a Service and Cloud based software systems.
5. Use current software project management techniques in software development.



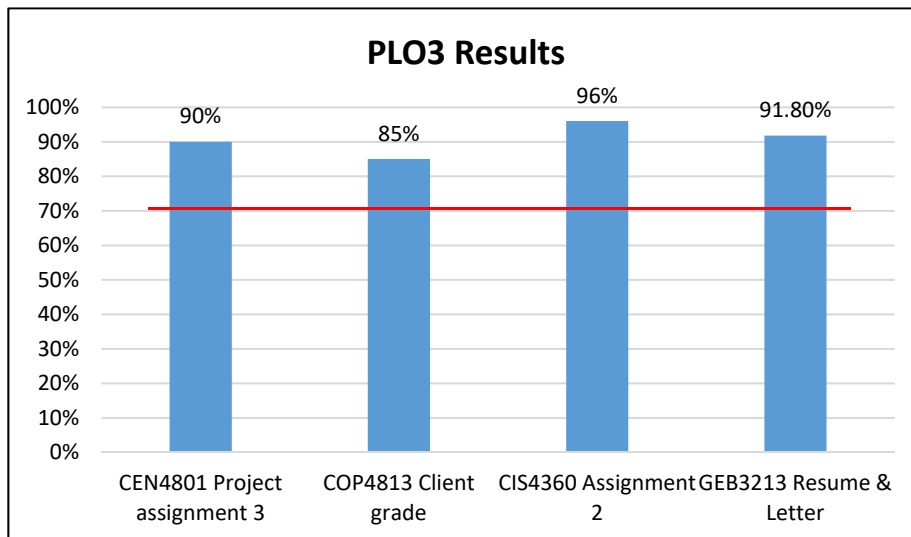
# Assessment Results 2017-2018



PLO1: Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions. *Target: 70% of students will achieve 70% or higher.*

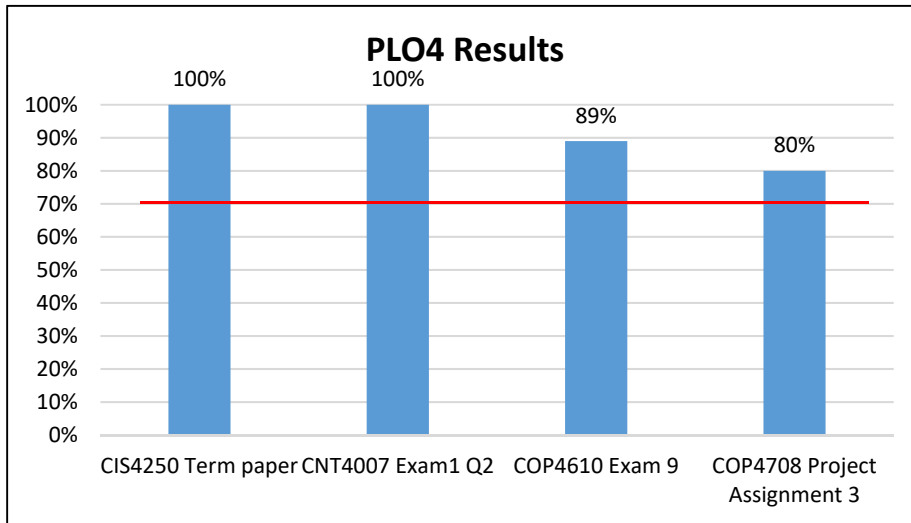


PLO 2: Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline. *Target: 70% of students will achieve 70% or higher.*

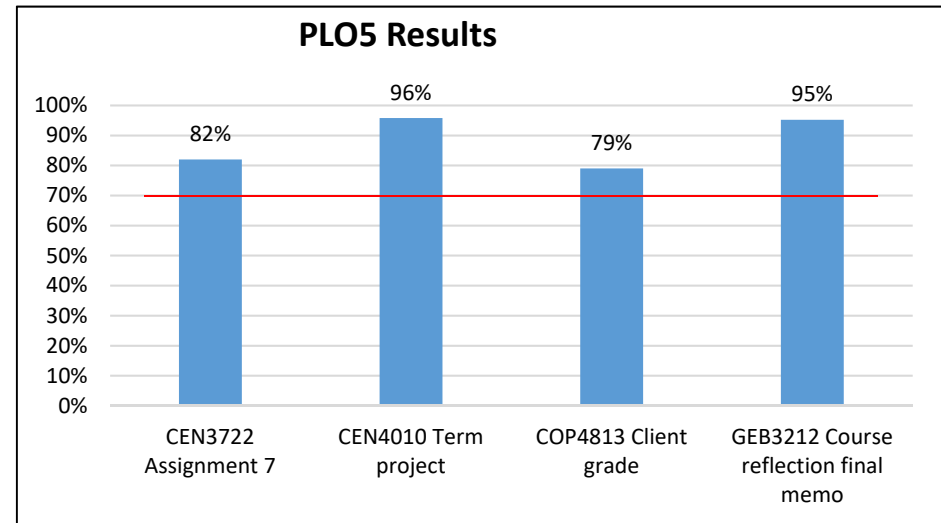


PLO 3: Communicate effectively in a variety of professional contexts. *Target: 70% of students will achieve 70% or higher.*

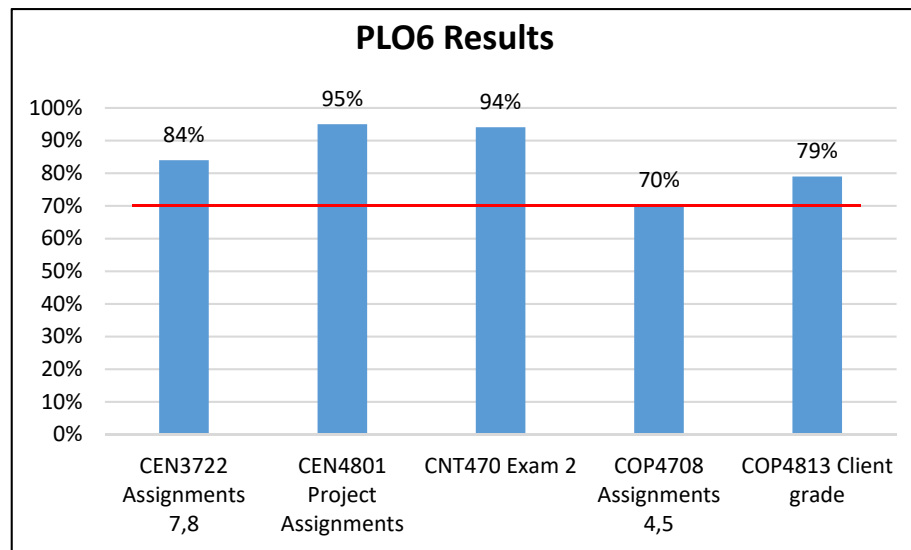
# Assessment Results 2017-2018



PLO 4: Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles. *Target: 70% of students will achieve 70% or higher.*



PLO 5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline. *Target: 70% of students will achieve 70% or higher.*



PLO6: Identify and analyze user needs and to take them into account in the selection, creation, integration, evaluation, and administration of computing-based systems. *Target: 70% of students will achieve 70% or higher.*

## Assessment Data 2016-2017 and 2017-2018: Programs and 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>Bachelor of Science in Information Technology (BSIT) - 6334</b>	72.7%-100%	80%-94.1%	80%-98%	82%-95.8%	80%-100%	80%-100%	72.7%-100%	70%-100%
<b>3002 - Cybersecurity and Cyberforensics</b>	72.7%-100%	80%-94.1%	80%-98%	82%-95.8%	80%-100%	80%-100%	72.7%-100%	70%-100%
<b>3003 – Web Systems Software Development</b>	72.7%-100%	80%-94.1%	80%-98%	82%-95.8%	80%-100%	80%-100%	72.7%-100%	70%-100%

## Course Success Rates

Major	Course	2014-2015		2015-2016		2016-2017		2017-2018		
		Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	
6334- BS Information Technology	CDA4101			52	81%	50	90%	57	88%	
	CEN3722					27	70%	63	83%	↑
	CEN4010			25	92%	23	96%	27	89%	
	CEN4801			11	82%	16	81%	22	82%	↑
	CET3010	93	84%	20	100%					
	CET3116	98	67%	80	54%	95	51%	118	57%	↑
	CET3679	54	93%	24	100%					
	CET4748	41	98%	24	92%					
	CET4860	32	84%	37	70%	48	79%	41	88%	↑
	CET4861	12	92%	16	88%	12	100%	36	83%	
	CET4862	12	75%	21	100%	20	85%	24	71%	
	CET4884	33	94%	25	100%	21	95%	33	88%	
	CIS4250			11	91%	29	97%	44	91%	
	CIS4360			72	72%	84	65%	75	67%	↑
	CNT3104			34	94%	41	93%	48	92%	
	CNT4007			46	67%	39	90%	44	95%	↑
	CNT4703			6	83%	41	93%	26	85%	
	COP3530			88	47%	86	69%	60	63%	
	COP4610			71	96%	45	98%	59	98%	
	COP4708	70	91%	67	91%	44	82%	46	78%	
	COP4709	16	56%	11	55%	10	80%	6	83%	↑
	COP4813	73	77%	57	75%	28	79%	23	87%	
	COP4834	18	67%	12	58%	10	90%	4	100%	
	COT3100	76	84%	94	90%	97	80%	74	80%	
CTS3348	91	75%	85	82%	46	76%	59	68%		
Major		968	81%	989	79%	912	79%	989	79%	

## Course Success Rates by Multiple Location Only

Major, Associated Courses and Sub-session			2017-2018	
			Attempted	% Successful
6334- BS Information Technology	CEN3722	ATC	33	88%
		Online	30	77%
		Course	63	83%
	CEN3116	ATC	24	63%
		Online	94	55%
		Course	118	57%
	CET4861	ATC	20	85%
		Online	16	81%
		Course	24	71%
	CET4862	ATC	2	50%
		Online	22	73%
		Course	24	71%
	CET4884	ATC	15	87%
		Online	18	89%
		Course	33	88%
	CIS4250	ATC	17	88%
		Online	27	93%
		Course	44	91%
CNT3104	ATC	26	88%	
	Online	22	95%	
	Course	48	92%	
CNT4703	ATC	17	94%	
	Online	9	67%	
	Course	26	85%	
COP4708	ATC	10	100%	
	Online	36	72%	
	Course	46	78%	
CTS3348	ATC	13	85%	
	Online	46	63%	
	Course	59	68%	

 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 3)

Major, Associated Courses and Sub-session			2014-2015		2015-2016		2016-2017		2017-2018	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
6334- BS Information Technology	CDA4101	FA Full term			22	77%	20	100%	25	80%
		SP Full term			30	83%	30	83%	32	94%
		Course			52	81%	50	90%	57	88%
	CEN3722	FA Full term					12	50%	30	77%
		SU Full term					15	87%	33	88%
		Course					27	70%	63	83%
	CET3116	FA Full term	32	59%	34	47%	37	43%	46	54%
		SP Full term	36	69%	30	60%	47	53%	48	56%
		SU Full term	30	73%	16	56%	11	64%	24	63%
		Course	98	67%	80	54%	95	51%	118	57%
	CET4860	FA Full term	14	79%	22	64%	25	76%	18	83%
		SP Full term	18	89%	15	80%	23	83%	23	91%
		Course	32	84%	37	70%	48	79%	41	88%
	CET4861	FA Full term			4	75%	9	100%	6	50%
		SP Full term	12	92%	12	92%	1	100%	10	100%
		SU Full term					2	100%	20	85%
		Course	12	92%	16	88%	12	100%	36	83%

■ 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 3)

Major, Associated Courses and Sub-session			2014-2015		2015-2016		2016-2017		2017-2018	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
6334- BS Information Technology	CET4862	FA Full term	12	75%	10	100%	4	100%	9	67%
		SP Full term			6	100%	14	79%	13	77%
		SU Full term			5	100%	2	100%	2	50%
		Course	12	75%	21	100%	20	85%	24	71%
	CET4884	FA B term							18	89%
		SU Full term							15	87%
		Course							33	88%
	CIS4250	FA B term					14	100%	27	93%
		SU Full term					15	93%	17	88%
		Course					29	97%	44	91%
	CIS4360	FA Full term			33	70%	45	60%	31	65%
		SP Full term			39	74%	39	72%	44	68%
		Course			72	72%	84	65%	75	67%
	CNT3104	FA A term					22	91%	22	95%
		SU Full term					19	95%	26	88%
		Course					41	93%	48	92%
	CNT4007	FA Full term			11	64%	19	89%	20	95%
		SP Full term			35	69%	20	90%	24	96%
		Course			46	67%	39	90%	44	95%
	CNT4703	FA A term					15	93%	9	67%
SU Full term						26	92%	17	94%	
Course						41	93%	26	85%	
COP3530	FA Full term			29	45%	39	67%	23	57%	
	SP Full term			43	49%	28	75%	37	68%	
	SU Full term			16	44%	19	63%			
	Course			88	47%	86	69%	60	63%	
COP4610	FA Full term			32	94%	27	100%	29	100%	
	SP Full term			39	97%	18	94%	30	97%	
	Course			71	96%	45	98%	59	98%	

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 Indicates a success rate between 70% and 89%  
 Indicates a success rate below 70%

## Course Success Rates by Multiple Session/Sub-session Only (3 of 3)

Major, Associated Courses and Sub-session			2014-2015		2015-2016		2016-2017		2017-2018	
			Attempted	% Successful	Attempted	% Successful	Attempted	% Successful	Attempted	% Successful
6334- BS Information Technology	COP4708	FA Full term	30	90%	24	92%	12	83%	13	62%
		SP Full term	24	88%	29	100%	25	80%	23	78%
		SU Full term	16	100%	14	71%	7	86%	10	100%
		Course	70	91%	67	91%	44	82%	46	78%
	COT3100	FA Full term			46	93%	53	83%	36	83%
		SP Full term	76	84%	48	88%	44	77%	38	76%
		Course	76	84%	94	90%	97	80%	74	80%
	CTS3348	FA Full term	40	70%	43	88%	27	78%	23	74%
		SP Full term	51	78%	31	77%	19	74%	23	52%
		SU Full term			11	73%			13	85%
		Course	91	75%	85	82%	46	76%	59	68%



■ 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

Major and Session/Sub-session		2017-2018	
		Attempted	% Successful
6334 - BSIT	A term	31	87%
	FA B term	27	93%
	Full term	354	75%
	SP Full term	400	78%
	SU Full term	177	85%
Total		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 Modality and Session/Sub-session (1 of 2)

Program, Course, IM and Session/Sub-session	# Students Enrolled	Success Rate
6334 - BSIT	989	79%
CDA4101	57	88%
Online	57	88%
Fall 2017	25	80%
Full term	25	80%
Spring 2018	32	94%
Full term	32	94%
CEN3722	63	83%
Online	63	83%
Summer 2017	33	88%
Fall 2017	30	77%
Full term	30	77%
CEN4010	27	89%
Online	27	89%
Spring 2018	27	89%
Full term	27	89%
CEN4801	22	82%
Online	22	82%
Fall 2017	22	82%
Full term	22	82%
CET3116	118	57%
Online	118	57%
Summer 2017	24	63%
Fall 2017	46	54%
Full term	46	54%
Spring 2018	48	56%
Full term	48	56%
CET4860	41	88%
Online	41	88%
Fall 2017	18	83%
Full term	18	83%
Spring 2018	23	91%
Full term	23	91%

Program, Course, IM and Session/Sub-session	# Students Enrolled	Success Rate
6334 - BSIT	989	79%
CET4861	36	83%
Online	36	83%
Summer 2017	20	85%
Fall 2017	6	50%
Full term	6	50%
Spring 2018	10	100%
Full term	10	100%
CET4862	24	71%
IS	2	50%
Summer 2017	2	50%
Online	22	73%
Fall 2017	9	67%
Full term	9	67%
Spring 2018	13	77%
Full term	13	77%
CET4884	33	88%
Online	33	88%
Summer 2017	15	87%
Spring 2018	18	89%
Full term	18	89%
CIS4250	44	91%
Online	44	91%
Summer 2017	17	88%
Fall 2017	27	93%
B term	27	93%
CIS4360	75	67%
Online	75	67%
Fall 2017	31	65%
Full term	31	65%
Spring 2018	44	68%
Full term	44	68%

Source: IR Program Assessment Data

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 Modality and Session/Sub-session (2 of 2)

Program, Course, IM and Session/Sub-session	# Students Enrolled	Success Rate
6334 - BSIT	989	79%
CNT3104	48	92%
Online	48	92%
Summer 2017	26	88%
Fall 2017	22	95%
A term	22	95%
CNT4007	44	95%
Online	44	95%
Fall 2017	20	95%
Full term	20	95%
Spring 2018	24	96%
Full term	24	96%
CNT4703	26	85%
Online	26	85%
Summer 2017	17	94%
Fall 2017	9	67%
A term	9	67%
COP3530	60	63%
Online	60	63%
Fall 2017	23	57%
Full term	23	57%
Spring 2018	37	68%
Full term	37	68%
COP4610	59	98%
Online	59	98%
Fall 2017	29	100%
Full term	29	100%
Spring 2018	30	97%
Full term	30	97%

Program, Course, IM and Session/Sub-session	# Students Enrolled	Success Rate
6334 - BSIT	989	79%
COP4708	46	78%
Online	46	78%
Summer 2017	10	100%
Fall 2017	13	62%
Full term	13	62%
Spring 2018	23	78%
Full term	23	78%
COP4709	6	83%
Online	6	83%
Spring 2018	6	83%
Full term	6	83%
COP4813	23	87%
Online	23	87%
Fall 2017	23	87%
Full term	23	87%
COP4834	4	100%
Online	4	100%
Spring 2018	4	100%
Full term	4	100%
COT3100	74	80%
Online	74	80%
Fall 2017	36	83%
Full term	36	83%
Spring 2018	38	76%
Full term	38	76%
CTS3348	59	68%
Online	59	68%
Summer 2017	13	85%
Fall 2017	23	74%
Full term	23	74%
Spring 2018	23	52%
Full term	23	52%
<b>Grand Total</b>	<b>989</b>	<b>79%</b>

■ 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 Race/Ethnicity (1 of 3)

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
<b>6334 - BSIT</b>	<b>985</b>	<b>79%</b>
<b>CDA4101</b>	<b>57</b>	<b>88%</b>
Am. Ind	1	100%
Asian	1	100%
Black	6	83%
Hawaii/Pac	1	0%
Hispanic	6	100%
Two or More Races	1	0%
White	41	90%
<b>CEN3722</b>	<b>63</b>	<b>83%</b>
Am. Ind	1	100%
Asian	2	100%
Black	2	50%
Hawaii/Pac	1	100%
Hispanic	11	82%
Two or More Races	2	50%
White	44	84%
<b>CEN4010</b>	<b>27</b>	<b>89%</b>
Asian	2	100%
Black	1	100%
Hispanic	2	100%
Two or More Races	1	100%
White	21	86%
<b>CEN4801</b>	<b>22</b>	<b>82%</b>
Asian	1	100%
Black	1	0%
Hawaii/Pac	1	0%
Two or More Races	1	100%
White	18	89%

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
<b>CET3116</b>	<b>118</b>	<b>57%</b>
Am. Ind	1	100%
Asian	5	40%
Black	13	46%
Hispanic	23	61%
Two or More Races	3	100%
White	73	56%
<b>CET4860</b>	<b>41</b>	<b>88%</b>
Am. Ind	1	100%
Asian	3	67%
Black	4	50%
Hispanic	3	100%
White	30	93%
<b>CET4861</b>	<b>35</b>	<b>83%</b>
Asian	2	100%
Hawaii/Pac	2	0%
Hispanic	2	50%
Two or More Races	3	33%
White	26	96%
<b>CET4862</b>	<b>24</b>	<b>71%</b>
Am. Ind	1	0%
Asian	2	100%
Hispanic	2	50%
Two or More Races	2	0%
White	17	82%
<b>CET4884</b>	<b>33</b>	<b>88%</b>
Asian	3	67%
Black	2	100%
Hawaii/Pac	1	100%
Hispanic	3	100%
Two or More Races	1	100%
White	23	87%

■ 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 Race/Ethnicity (2 of 3)

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
<b>CIS4250</b>	<b>44</b>	<b>91%</b>
Asian	1	100%
Black	2	100%
Hispanic	3	100%
Two or More Races	1	100%
White	37	89%
<b>CIS4360</b>	<b>75</b>	<b>67%</b>
Asian	1	0%
Black	6	33%
Hispanic	9	67%
Two or More Races	2	0%
White	57	74%
<b>CNT3104</b>	<b>48</b>	<b>92%</b>
Am. Ind	1	100%
Asian	2	100%
Black	6	83%
Hispanic	4	100%
Two or More Races	2	100%
White	33	91%
<b>CNT4007</b>	<b>44</b>	<b>95%</b>
Am. Ind	1	100%
Asian	2	100%
Black	6	100%
Hispanic	3	100%
Two or More Races	1	100%
White	31	94%
<b>CNT4703</b>	<b>26</b>	<b>85%</b>
Black	3	100%
Hawaii/Pac	1	100%
Hispanic	2	100%
Two or More Races	1	100%
White	19	79%

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
<b>COP3530</b>	<b>60</b>	<b>63%</b>
Am. Ind	1	0%
Asian	1	100%
Black	4	50%
Hispanic	7	43%
Two or More Races	2	50%
White	45	69%
<b>COP4610</b>	<b>59</b>	<b>98%</b>
Asian	1	100%
Black	9	100%
Hispanic	7	100%
Two or More Races	2	100%
White	40	98%
<b>COP4708</b>	<b>46</b>	<b>78%</b>
Asian	1	100%
Black	2	50%
Hispanic	6	67%
Two or More Races	3	33%
White	34	85%
<b>COP4709</b>	<b>6</b>	<b>83%</b>
White	6	83%
<b>COP4813</b>	<b>23</b>	<b>87%</b>
Asian	1	100%
Black	3	33%
Hawaii/Pac	1	0%
White	18	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 Rates by Race/Ethnicity (3 of 3)

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
COP4834	4	100%
White	4	100%
COT3100	72	81%
Asian	1	100%
Black	5	60%
Hispanic	11	82%
Two or More Races	5	100%
White	50	80%
CTS3348	58	69%
Asian	3	33%
Black	10	50%
Hispanic	7	57%
Two or More Races	3	67%
White	35	80%
<b>Grand Total</b>	<b>985</b>	<b>79%</b>

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

## Overall Course Success Rates by Race/Ethnicity

Program, Course, Race/Ethnicity	# Students Enrolled	Success Rate
Am. Ind	8	75%
Asian	35	77%
Black	85	66%
Hawaii/Pac	8	38%
Hispanic	111	76%
Two or More Races	36	67%
White	702	82%
<b>Grand Total</b>	<b>985</b>	<b>79%</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

## Grade Distribution (1 of 2)

Major	Term	Course	2017-2018							
			A	B	C	D	F	FNs	Ws	W1s
6334- BS Information Technology	Summer 2017	CEN3722	16	8	5	1	0	2	1	0
		CET3116	2	7	6	2	4	1	2	0
		CET4861	16	0	1	0	1	0	2	0
		CET4862	1	0	0	0	0	1	0	0
		CET4884	5	6	2	0	1	0	1	0
		CIS4250	15	0	0	0	2	0	0	0
		CNT3104	7	11	5	1	2	0	0	0
		CNT4703	10	6	0	1	0	0	0	0
		COP4708	2	7	1	0	0	0	0	0
		CTS3348	10	1	0	0	1	0	1	0
		<b>Total</b>	<b>84(47.5%)</b>	<b>46(26%)</b>	<b>20(11.3%)</b>	<b>5(2.8%)</b>	<b>11(6.2%)</b>	<b>4(2.3%)</b>	<b>7(4%)</b>	<b>0(0%)</b>
	Fall 2017	CDA4101	7	5	8	1	1	0	2	1
		CEN3722	14	7	2	0	2	0	2	3
		CEN4801	5	12	1	0	1	0	1	2
		CET3116	3	14	8	5	6	1	4	5
		CET4860	9	4	2	0	0	0	2	1
		CET4861	1	2	0	0	1	0	0	2
		CET4862	4	2	0	0	0	1	0	2
		CIS4250	21	4	0	0	1	0	1	0
		CIS4360	17	1	2	1	1	4	4	1
		CNT3104	8	6	7	0	0	0	1	0
		CNT4007	15	2	2	0	0	0	0	1
		CNT4703	4	1	1	0	2	0	1	0
		COP3530	7	4	2	0	1	0	9	0
		COP4610	19	7	3	0	0	0	0	0
		COP4708	0	5	3	0	3	0	2	0
		COP4813	14	3	3	0	2	0	1	0
		COT3100	13	14	3	0	1	0	3	2
CTS3348	9	4	4	0	2	1	2	1		
<b>Total</b>	<b>170(41.3%)</b>	<b>97(23.5%)</b>	<b>51(12.4%)</b>	<b>7(1.7%)</b>	<b>24(5.8%)</b>	<b>7(1.7%)</b>	<b>35(8.5%)</b>	<b>21(5.1%)</b>		



## Grade Distribution (2 of 2)

Major	Term	Course	2017-2018								
			A	B	C	D	F	FNs	Ws	W1s	
6334- BS Information Technology	Spring 2018	CDA4101	6	18	6	1	0	0	0	0	1
		CEN4010	14	8	2	1	1	0	1	0	0
		CET3116	5	7	15	7	3	6	4	1	1
		CET4860	14	4	3	0	0	0	1	1	1
		CET4861	6	3	1	0	0	0	0	0	0
		CET4862	5	3	2	0	2	0	0	1	1
		CET4884	7	5	4	0	1	0	0	1	1
		CIS4360	22	4	4	1	3	2	6	2	2
		CNT4007	12	8	3	0	1	0	0	0	0
		COP3530	12	6	7	0	6	0	5	1	1
		COP4610	24	4	1	1	0	0	0	0	0
		COP4708	8	8	2	1	1	0	3	0	0
		COP4709	2	3	0	0	0	0	1	0	0
		COP4834	4	0	0	0	0	0	0	0	0
		COT3100	14	13	2	2	2	0	3	2	2
		CTS3348	3	4	5	1	1	2	6	1	1
<b>Total</b>			<b>158(39.5%)</b>	<b>98(24.5%)</b>	<b>57(14.3%)</b>	<b>15(3.8%)</b>	<b>21(5.3%)</b>	<b>10(2.5%)</b>	<b>30(7.5%)</b>	<b>11(2.8%)</b>	

## 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
6334 - BS Info Tech - BSIT	CDA4101			2	26	2	25	2	29
	CEN3722					3	9	2	32
	CEN4010			1	25	1	23	1	27
	CEN4801			1	11	1	16	1	22
	CET3010	3	31	1	20				
	CET3116	3	33	3	27	3	32	3	39
	CET3383	1	42						
	CET3679	2	27	1	24				
	CET4748	2	21	1	24				
	CET4860	2	16	2	19	2	24	2	21
	CET4861	1	12	2	8	3	4	3	12
	CET4862	1	12	3	7	3	7	3	8
	CET4884	2	17	2	13	1	21	2	17
	CIS4250					2	15	2	22
	CIS4360			2	36	2	42	2	38
	CNT3104			1	34	2	21	2	24
	CNT4007			3	15	2	20	2	22
	CNT4703			1	6	3	14	2	13
	COP3530			3	29	3	29	2	30
	COP4610			2	36	2	23	2	30
	COP4708	3	23	3	22	3	15	3	15
	COP4709	1	16	1	11	1	10	1	6
	COP4813	1	73	1	57	1	28	1	23
	COP4834	1	18	1	12	1	10	1	4
	COT3100	2	38	2	47	3	32	2	37
	CTS3348	2	46	3	28	2	23	3	20
<b>Major</b>	<b>35</b>	<b>28</b>	<b>42</b>	<b>23</b>	<b>46</b>	<b>20</b>	<b>44</b>	<b>22</b>	

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

## Average Class Size by Campus

Program, Course, Campus	# Sections	Average Class Size
6334 - BSIT	44	22
CDA4101	2	29
ONLINE	2	29
CEN3722	2	32
ATC	1	33
ONLINE	1	30
CEN4010	1	27
ONLINE	1	27
CEN4801	1	22
ONLINE	1	22
CET3116	3	39
ATC	1	24
ONLINE	2	47
CET4860	2	21
ONLINE	2	21
CET4861	3	12
ATC	1	20
ONLINE	2	8
CET4862	3	8
ATC	1	2
ONLINE	2	11
CET4884	2	17
ATC	1	15
ONLINE	1	18
CIS4250	2	22
ATC	1	17
ONLINE	1	27
CIS4360	2	38
ONLINE	2	38
CNT3104	2	24
ATC	1	26
ONLINE	1	22

Program, Course, Campus	# Sections	Average Class Size
6334 - BSIT	44	22
CNT4007	2	22
ONLINE	2	22
CNT4703	2	13
ATC	1	17
ONLINE	1	9
COP3530	2	30
ONLINE	2	30
COP4610	2	30
ONLINE	2	30
COP4708	3	15
ATC	1	10
ONLINE	2	18
COP4709	1	6
ONLINE	1	6
COP4813	1	23
ONLINE	1	23
COP4834	1	4
ONLINE	1	4
COT3100	2	37
ONLINE	2	37
CTS3348	3	20
ATC	1	13
ONLINE	2	23
<b>Grand Total</b>	<b>44</b>	<b>22</b>

## Performance Funding - Graduation Rates

Major	Fall Cohort Year	# in Cohort	150% Graduates	150% Graduation Rate	200% Graduates	200% Graduation Rate
6334 - BS Info Tech - BSIT	2013	7	3	42.9%	5	71.4%
	2014 – 200% In progress	100	34	34.0%	42	42.0%
	2015 – In progress	58	10	17.2%	10	17.2%

**College average (150%- 58.3%, 200%- 66.1%)**

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 - Graduation Rates by Race/Ethnicity

Major	Fall Cohort Year	Race/Ethnicity	# in Cohort	150% Graduates	150% Graduation Rate	200% Graduates	200% Graduation Rate
6334 - BS Info Tech - BSIT	2013	Hispanic	1	0	0%	1	100%
		White	6	3	50%	4	66.7%
	2014 – 200% In progress	Asian	6	3	50%	3	50%
		Black	13	3	23.1%	3	23.1%
		Hispanic	13	4	30.8%	6	46.2%
		Two or More Races	5	3	60%	4	80%
		White	63	21	33.3%	26	41.3%
	2015 – In progress	Asian	1	0	0%	0	0%
		Black	7	2	28.6%	2	28.6%
		Hawaii/Pac	1	0	0%	0	0%
		Hispanic	4	1	25%	1	25%
		White	43	7	16.3%	7	16.3%

**College average (150%- 58.3%, 200%- 66.1%)**

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 (Fa16 to FA17)

Program and Cohort Year	Registered	Exclusions	Adjusted Cohort	Retained by DSC		Retained by Program		DSC Total Retained
				N	%	N	%	
2013	165	15	150	58	38.67%	38	25.33%	64.00%
2014	200	27	174	13	8.05%	95	54.60%	62.65%
2015	106	15	91	3	3.3%	58	63.74%	67.04%
2016	172	19	153	0	0%	105	69%	69%

### 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

## Fall 2016 to Fall 2017 Retention Rates by Race/Ethnicity

Major	Fall Term	Registered	Exclusions	Adjusted Cohort	Retained by Program	
					N	%
6334- BS Information Technology	Am. Ind	1	0	1	1	100%
	Asian	7	1	6	2	33%
	Black	11	0	11	10	91%
	Hawaii/Pac	1	0	1	1	100%
	Hispanic	27	2	25	14	56%
	Two or More Races	7	1	6	3	50%
	White	118	15	103	74	72%

**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

## Persistence Rates

Program and Cohort Year		Registered	Exclusions	Adjusted Cohort	Persistence by DSC		Persistence by Program		DSC Total Persistence
					N	%	N	%	
3002 – Cybersecurity and Cyberforensics	FA16 to SP17	11	1	10	1	10%	6	60%	70%
	FA17 to SP18	8	0	8	1	13%	5	63%	76%
3003 – Web Systems Software Development	FA16 to SP17	1	0	1	0	0%	1	100%	100%
	FA17 to SP18	1	0	1	0	0%	0	0%	0%



## Persistence Rates by Race/Ethnicity

Program and Cohort Year	Race/ Ethnicity	Registered	Exclusions	Adjusted Cohort	Persistence by DSC		Persistence by Program		DSC Total Persistence	
					N	%	N	%		
3002 – Cybersecurity and Cyberforensics	FA16 to SP17	Asian	2	0	2	0	0%	2	100%	100%
	FA16 to SP17	Black	2	0	2	0	0%	1	50%	50%
		White	7	1	6	1	17%	3	50%	67%
		FA17 to SP18	Asian	1	0	1	0	0%	1	100%
	FA17 to SP18	Hispanic	1	0	1	0	0%	0	0%	0%
		White	6	0	6	1	17%	4	67%	83%
3003 – Web Systems Software Development	FA16 to SP17	White	1	0	1	0	0%	1	100%	100%
	FA17 to SP18	White	1	0	1	0	0%	0	0%	0%

Placement Rates (College average: 95.5%)								
Program Title	Major	2013/14		2014/15		2015/16		Average Annual Salary
		DSC%	FCS%	DSC%	FCS%	DSC%	FCS%	
BS Information Technology	6334	43%	69%	N/A	75%	79%	77%	\$47,360
Cybersecurity and Cyberforensics	3002			75%	75%	***0%	79%	\$45,108

\*Currently Inactive Program

N/A - No placement data for the program.


(\*\*\*\*), (\$\*\*,\*\*\*), or (\*\*\*) - Number of graduates less than 10 but greater than 0 suppressed.

■ 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

Source: IR Program Assessment Data

## Headcount by Major

Major	2014-2015	2015-2016	2016-2017	2017-2018
3002 - CYBERSEC./CYBERFORENSIC	6	9	16	12
3003 - WEB SYSTEMS SOFTWARE DEVELOPMENT			2	1
3004 – CONSTRUCTION AND DESIGN				1
6332 - BS-ENGR TECH - IT	80	19	-	
6334 - BS-INFO TECH - BSIT	225	252	237	271
<b>Total</b>	<b>311</b>	<b>280</b>	<b>255</b>	<b>285</b>



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

## Headcount vs. New Students and Graduates

Programs, Headcount, New Students, and Graduates		15-16	16-17	17-18
6334 - BSIT	New Students	100	93	100
	Graduates	24	29	25
	Headcount	252	237	271
3002 - Cybersecurity and Cyberforensics	New Students	18	5	4
	Graduates	15	9	7
	Headcount	9	16	12
3003 - Web Systems Software Development	New Students		2	0
	Graduates		4	1
	Headcount		2	1

## Graduates in Major

Major	2014-2015	2015-2016	2016-2017	2017-2018
<b>3002 - Cybersec./Cyberforensic</b>	<b>4</b>	<b>15</b>	<b>9</b>	<b>7</b>
<b>3003 – Web Systems Software Development</b>			<b>4</b>	<b>1</b>
<b>3004 – Construction and Design</b>				
<b>6332 - BS-Engr. Tech - IT</b>	<b>19</b>	<b>9</b>	<b>-</b>	
<b>6334 - BS-Info Tech - BSIT</b>	<b>13</b>	<b>24</b>	<b>29</b>	<b>25</b>
<b>Department Total</b>	<b>64</b>	<b>73</b>	<b>42</b>	<b>33</b>

## Average Age by Program

Program	2014-2015	2015-2016	2016-2017	2017-2018
3002 - Cybersec./Cyberforensic	29.0	34.0	42.9	47.4
3003 – Web Systems Software Development			45.6	35.1
3004 – Construction and Design				57.2
6334 - BS-Info Tech - BSIT	31.1	32.0	33.0	32.4

*Calculation excludes individuals whose birthdates are not reported.*

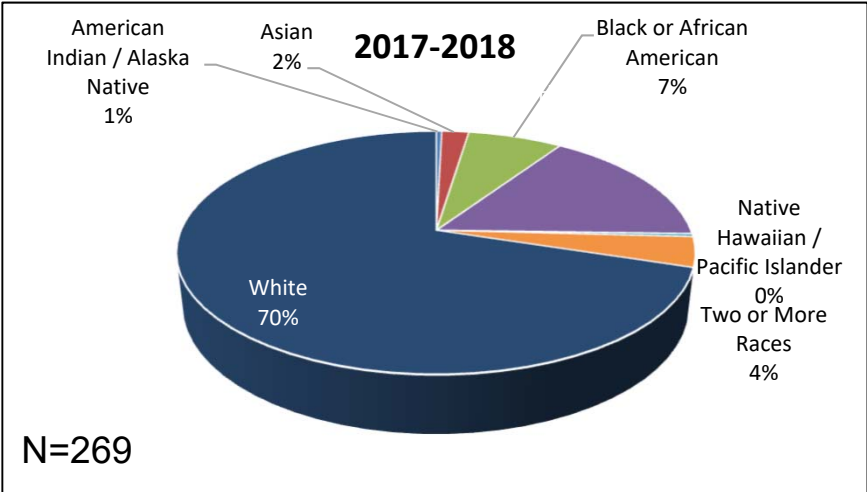
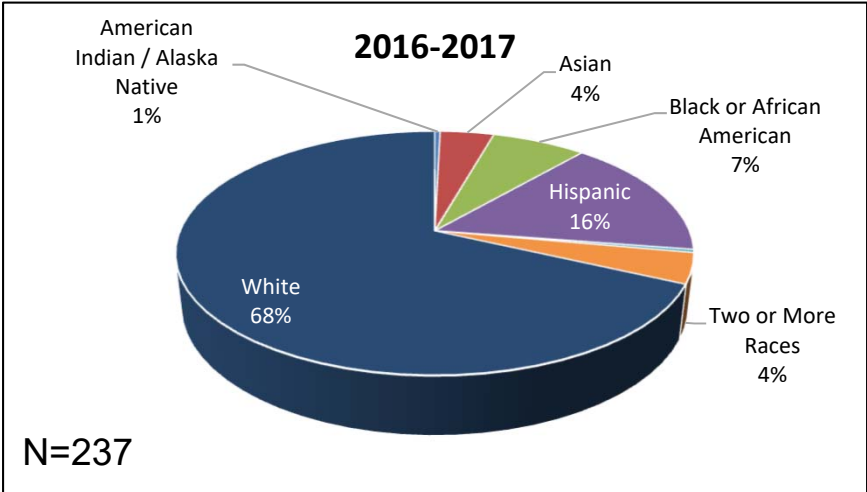
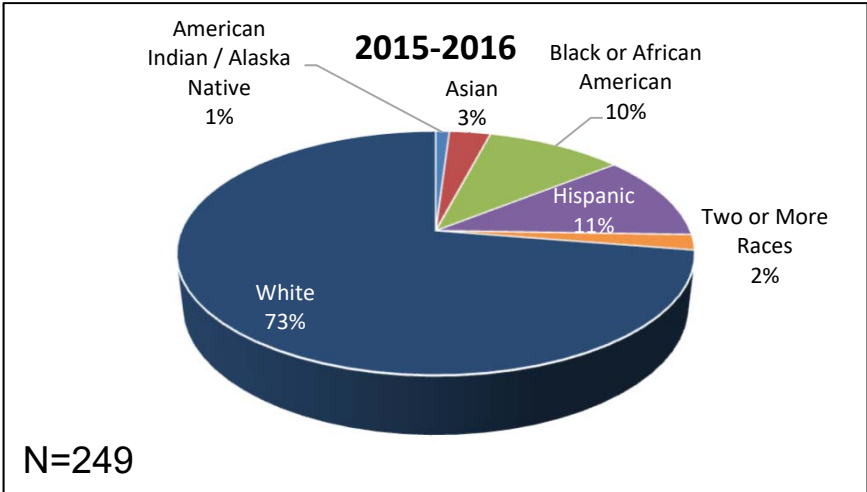
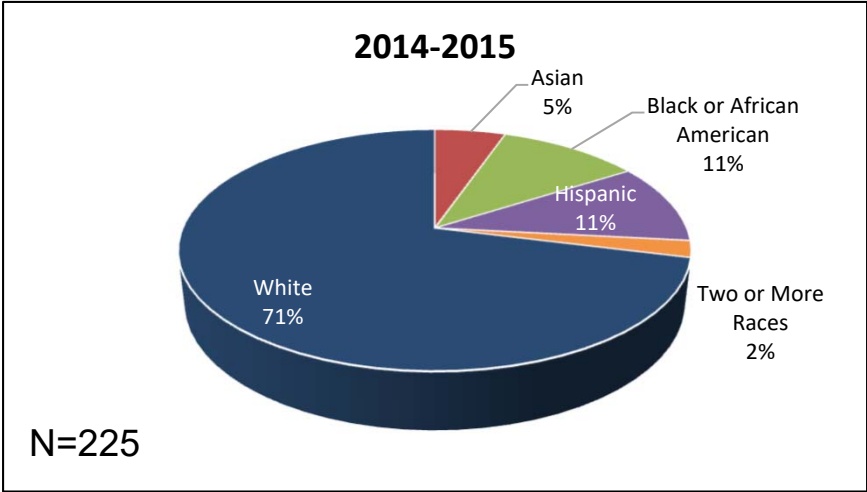
	2014-2015	2015-2016	2016-2017	2017-2018
All Programs	31.8	31.7	32.1	33.2
Daytona State College	26.4	26	27.0	27.2

## Gender

Program	2014-2015		2015-2016		2016-2017		2017-2018	
	Female	Male	Female	Male	Female	Male	Female	Male
<b>3002 - Cybersec./Cyberforensic</b>	<b>0%</b>	<b>100%</b>	<b>11%</b>	<b>89%</b>	<b>20%</b>	<b>80%</b>	<b>18%</b>	<b>82%</b>
<b>3003 – Web Systems Software Development</b>	-	-	-	-	<b>100%</b>	<b>0%</b>	<b>100%</b>	<b>0%</b>
<b>3004 – Construction and Design</b>							<b>0%</b>	<b>100%</b>
<b>6334 - BS-Info Tech - BSIT</b>	<b>20%</b>	<b>80%</b>	<b>21%</b>	<b>79%</b>	<b>21%</b>	<b>79%</b>	<b>24%</b>	<b>76%</b>

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>59%</b>	<b>38%</b>

# Race / Ethnicity by Program 6334 – BS Information Tech BSIT



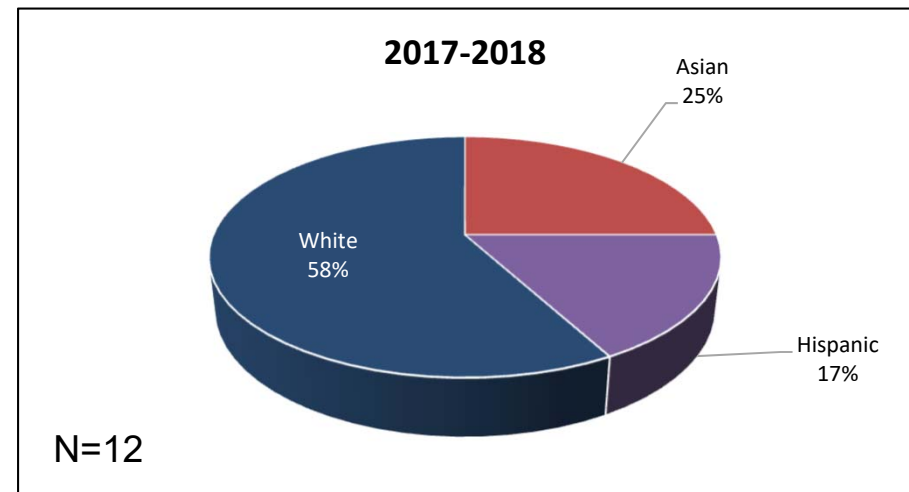
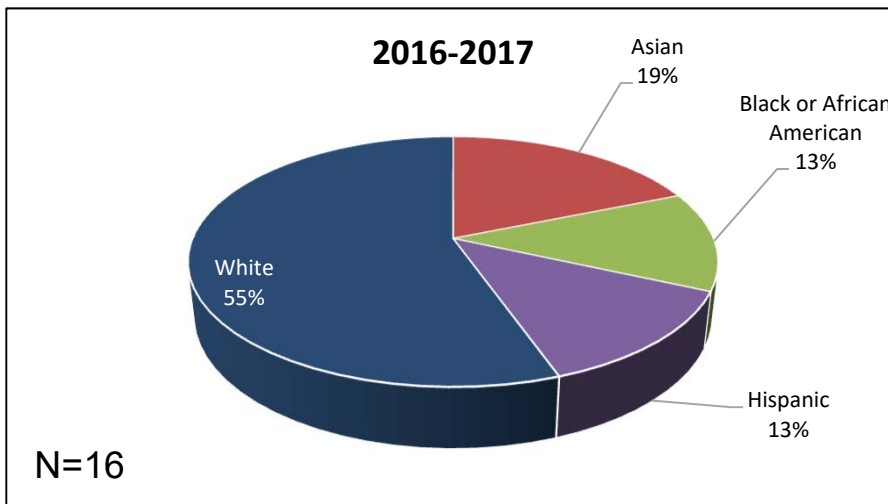
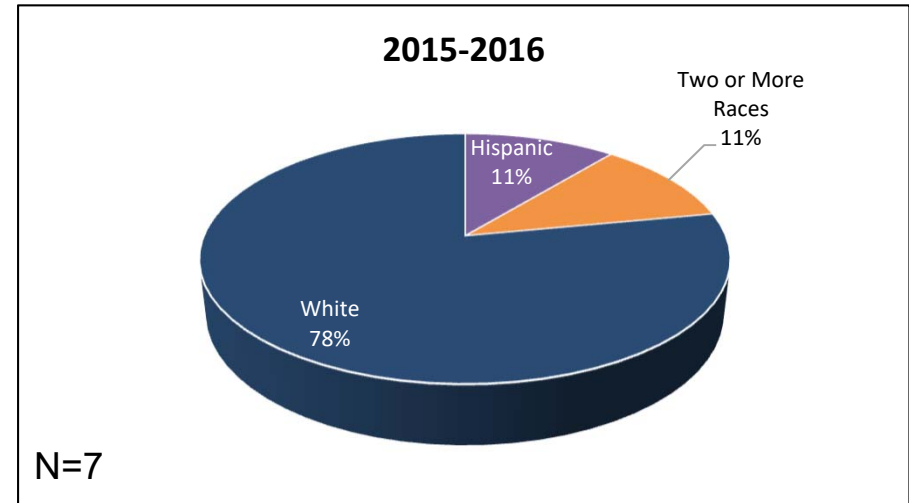
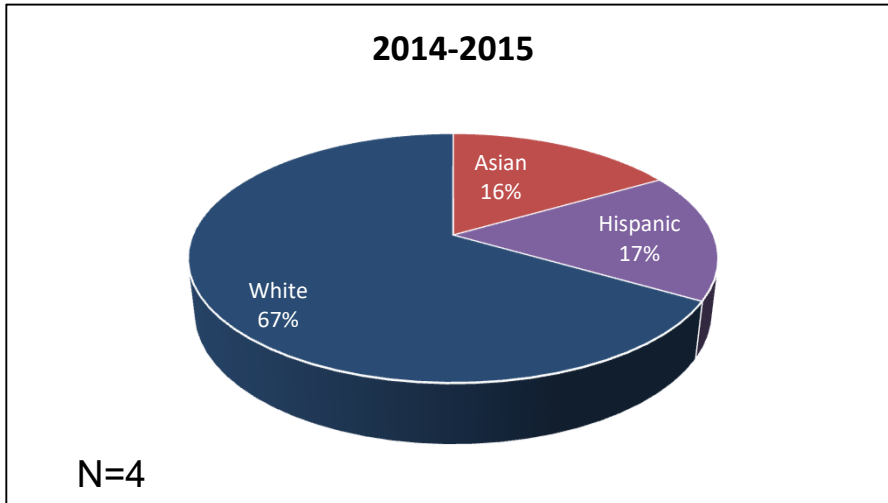
DSC Averages 2017-2018			
Black or African Amer	Hispanic	2 or More Races	White
14%	19%	3%	59%

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

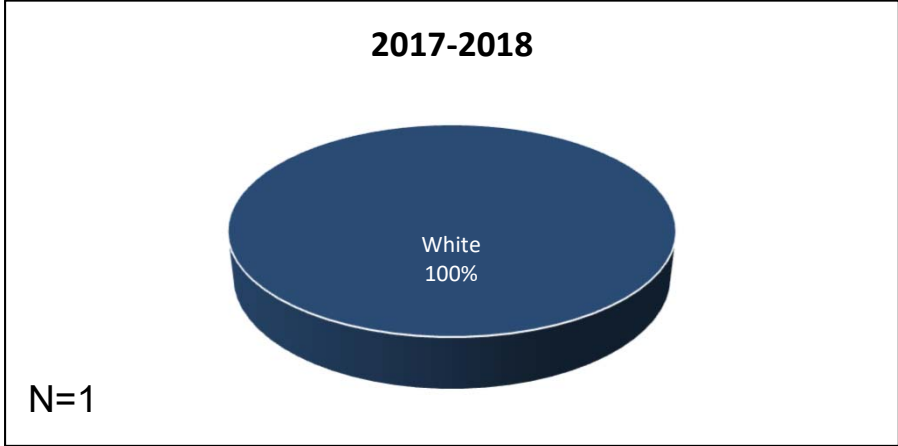
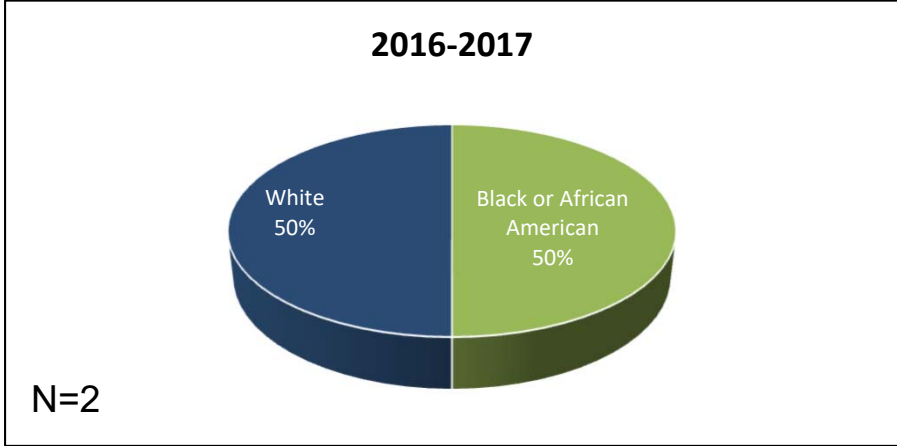


<b>DSC Averages 2017-2018</b>			
Black or African Amer	Hispanic	2 or More Races	White
<b>14%</b>	<b>19%</b>	<b>3%</b>	<b>59%</b>

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

# Race / Ethnicity by Program

## 3003 – Web Systems Software Development

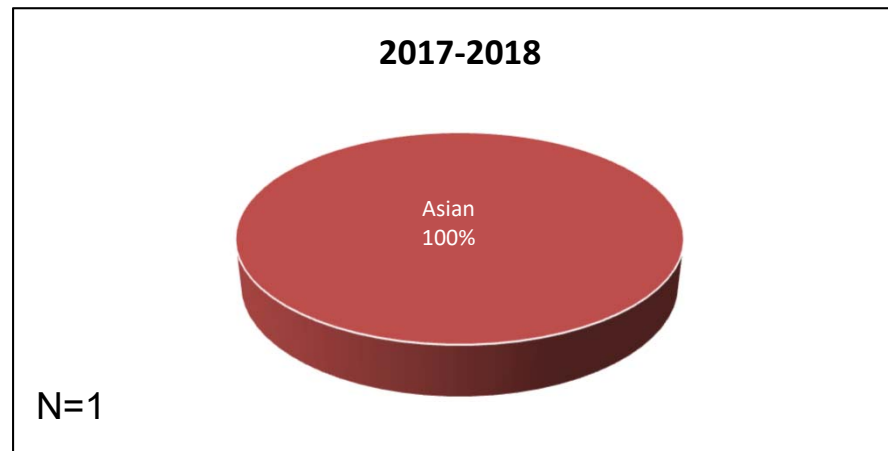


<b>DSC Averages 2017-2018</b>			
Black or African Amer	Hispanic	2 or More Races	White
<b>14%</b>	<b>19%</b>	<b>3%</b>	<b>59%</b>

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 3004 – Construction and Design



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

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

Source: IR Program Assessment Data