# ASSESSMENT DAY

**College of Business, Engineering, and Technology**
**School of Engineering and Information Technology**
**BSIT**
**March 8, 2022**

**Strengths**

**Challenges**

**Recommendations**

# Academic Assessment

|  | LEVEL | FOCUS | CONDUCTED BY | FREQUENCY |
|---|---|---|---|---|
| **Academic Success Committee** | Program | • Quality of assessment practices | Committee of peers | Years 1 & 2 |
| **Instructional Program Review** | Program / Cluster | • Enrollment, retention, completion<br>• Industry certifications and job placement<br>• Program budget and staffing<br>• Advisory committees<br>• Curriculum changes | Committee of peers | Year 3 |
| **Assessment Day** | Course/ Program | • Enrollment by demographics<br>• Graduation and retention<br>• Average class size<br>• Course success rate<br>• Placement rate<br>• 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](#)

# School of Engineering & Information Technology – BSIT
# Last Assessment Day Action Items

## Last Assessment Day: (03/01/2021)

- Provide remedial material for students who may need it;

- Look into creative avenues to recruit students, digital campaigns;

- Look into ways to present at conferences to meet the ABET professional development requirement;

- Look into developing an InfoGuide or Lit Guide for open source materials for students/alumni to have access to

# Program Educational Objectives (PEO)
# Bachelor of Science in Information Technology (BSIT) #6334

**1. Career:** Graduates will hold progressively more responsible positions in the IT field, including positions that are supervisory or managerial in nature.

**2. Skills:** Graduates will communicate effectively as an IT professional with users, peers, and higher management. They will solve problems using different and up-to-date methodologies. Use mathematical and scientific concepts that underlie information technology applications. They will work with teams exhibiting quality and timeliness.

**3. Professionalism and Ethics:** Graduates will demonstrate ethical behavior as an IT professional and sensitivity to the impact of technology on society. They will be involved as a member of the local and global communities acting as responsible technical professionals.

**4. Life-Long-Learning:** Graduates will pursue and successfully complete an advanced degree and/or obtain offered IT certificates as necessary for the duties of the profession.

# 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.

# Program Learning Outcomes
## Cybersecurity and Cyberforensics Certificate #3002

**Graduates of the program will be able to:**

1. Design security solutions based on policies and risk management.
2. Employ forensic procedures to preserve the integrity of digital evidence.
3. Analyze file systems common to Windows, Linux, and Mac operating systems.
4. Manage computer and network incidents and intrusions.
5. Design security audits, continuity of operations planning, and disaster recovery.

# 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 #6334

## PLO1 Results

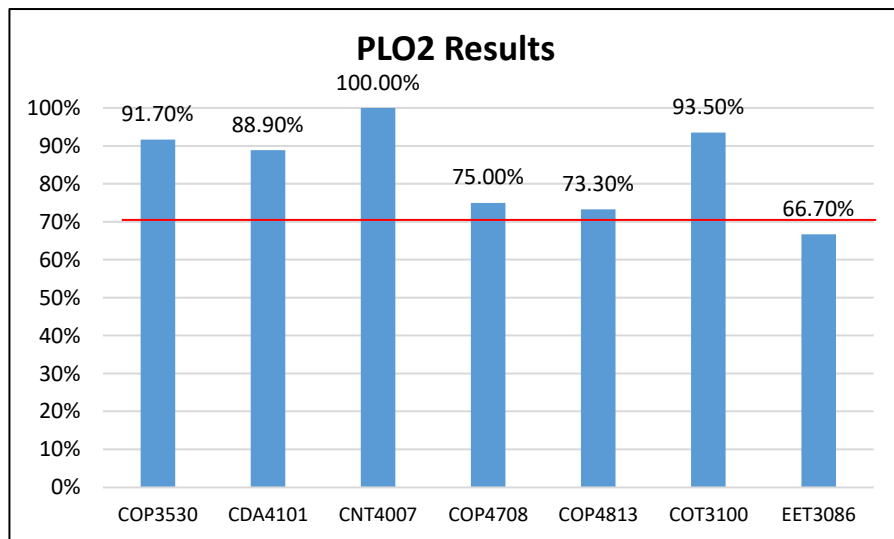| Course | Result |
|--------|--------|
| COP3530 | 75.00% |
| CEN3722 | 91.30% |
| CDA4101 | 92.00% |
| CEN4010 | 90.50% |
| CIS4360 | 73.30% |
| CNT3104 | 62.50% |
| CNT4007 | 94.70% |
| COP4708 | 75.00% |
| COP4813 | 90.00% |
| COP4834 | 75.00% |
| COT3100 | 100.00% |
| CTS3348 | 57.10% |
| EET3086 | 77.80% |

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.*

## PLO2 Results

| Course | Result |
|--------|--------|
| COP3530 | 91.70% |
| CDA4101 | 88.90% |
| CNT4007 | 100.00% |
| COP4708 | 75.00% |
| COP4813 | 73.30% |
| COT3100 | 93.50% |
| EET3086 | 66.70% |

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.*

## PLO3 Results

| Course | Result |
|--------|--------|
| CEN3722 | 91.30% |
| CEN3722 | 96.30% |
| CIS4360 | 40.00% |
| CIS4360 | 86.70% |
| CIS4360 | 53.30% |
| CIS4360 | 66.70% |

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

# Assessment Results #6334

## PLO4 Results



| Course | Result |
|--------|--------|
| CIS4250 | 93.30% |
| CIS4250 | 100.00% |
| CIS4250 | 100.00% |
| CNT4007 | 100.00% |
| COP4708 | 87.50% |

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.*

## PLO5 Results



| Course | Result |
|--------|--------|
| CEN3722 | 88.90% |
| CEN3722 | 91.30% |
| COP4813 | 70.60% |
| COP4813 | 80.00% |

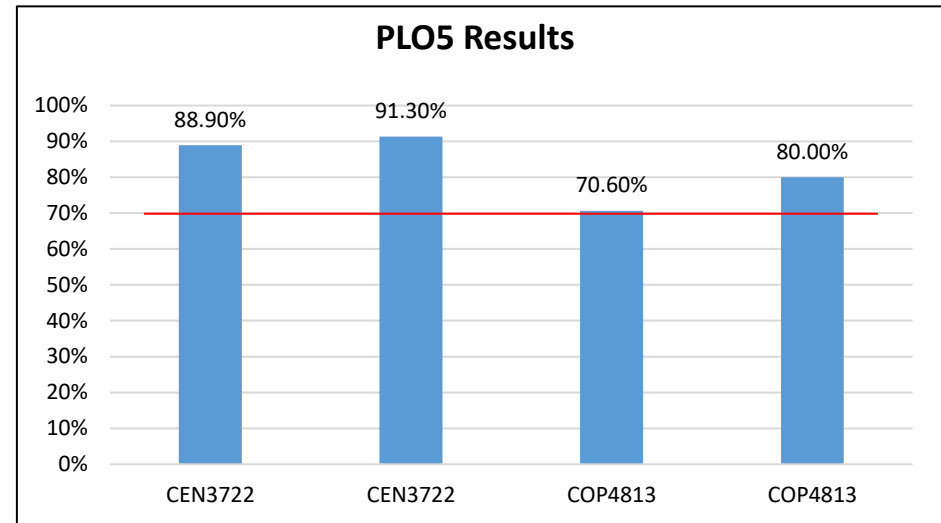PLO 5: Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline. *Target: 70% of students will achieve 70% or higher.*

## PLO6 Results



| Course | Result |
|--------|--------|
| CDA4101 | 88.00% |
| CDA4101 | 88.90% |
| COP4708 | 87.50% |
| COT3100 | 90.30% |

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 2019-2020 and 2020-2021: Programs and Institutional Learning Outcomes

| Program | Critical/ Creative Thinking | | Communication | | Cultural Literacy | | Information and Technical Literacy | |
|---|---|---|---|---|---|---|---|---|
| | 19/20 | 20/21 | 19/20 | 20/21 | 19/20 | 20/21 | 19/20 | 20/21 |
| Bachelor of Science in Information Technology (BSIT) - 6334 | 62.5%-100% | 57.1%-100% | 80%-83.3% | 40%-96.3% | 65.6%-100% | 87.5%-100% | 62.5%-95.8% | 57.1%-100% |
| 3002 - Cybersecurity and Cyberforensics | 62.5%-100% | 57.1%-100% | 80%-83.3% | 40%-96.3% | 65.6%-100% | 87.5%-100% | 62.5%-95.8% | 57.1%-100% |
| 3003 – Web Systems Software Development | 62.5%-100% | 57.1%-100% | 80%-83.3% | 40%-96.3% | 65.6%-100% | 87.5%-100% | 62.5%-95.8% | 57.1%-100% |

# Headcount by Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 |
|---|---|---|---|---|---|
| 3002 - CYBERSEC./CYBERFORENSIC | 16 | 12 | 4 | 5 | 2 |
| 3003 - WEB SYSTEMS SOFTWARE DEVELOPMENT | 2 | 1 | 1 | 0 | 1 |
| 6334 - BS-INFO TECH - BSIT | 237 | 271 | 244 | 214 | 178 |

*Students are duplicated across programs, unduplicated in the total.*

Source: IR Program Assessment Data

# Graduates in Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 |
|---|---|---|---|---|---|
| 3002 - Cybersecurity/Cyberforensic | 9 | 7 | 1 | 12 | 3 |
| 3003 – Web Systems Software Development | 4 | 1 | 1 | 4 | 1 |
| 6334 - BS-Info Tech - BSIT | 29 | 25 | 29 | 45 | 34 |
| Department Total | 42 | 33 | 31 | 61 | 38 |

*Blank cells or missing years indicate no graduates.*

Source: IR Program Assessment Data

# Number of Graduates by Race/Ethnicity

| Program, Race/Ethnicity | 2018-2019 | 2019-2020 | 2020-2021 |
|---|---|---|---|
| **300200 - Cybersecurity/Cyberforensic Cert.** | **1** | **12** | **3** |
| Black | | 2 | |
| Hispanic/Latino | | 1 | |
| Unknown | | | 1 |
| White | 1 | 9 | 2 |
| **300300 - Web Systems Software Dev** | **1** | **4** | **1** |
| Hispanic/Latino | | 1 | |
| Unknown | | | 1 |
| White | 1 | 3 | |
| **633400 - Information Technology B.S.** | **29** | **45** | **34** |
| Asian | 1 | 1 | 2 |
| Black | 3 | 2 | 2 |
| Hispanic/Latino | 1 | 7 | 2 |
| Two or More Races | 1 | 3 | 1 |
| Unknown | | | 2 |
| White | 23 | 32 | 25 |
| **Grand Total** | **31** | **61** | **38** |

Source: IR Program Assessment Data

# Time to Degree

| Program | Average of Yrs to Degree (2019-20 cohort) | Average of Yrs to Degree (2020-21 cohort) |
|---|---|---|
| 300200 - Cybersecurity/Cyberfor. Cert. | 0.02* | 1.6 |
| 300300 - Web Systems Software Dev | 0* | 0** |
| 633400 - Information Technology B.S. | 2.8 | 3.2 |

*Certs are not in the system until the last semester
**Both students entered this program the same semester they earned the degree for it

Source: IR Program Assessment Data

# Graduation Rates

| Major | Fall Cohort Year | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|
| 3002 - Cybersecurity/ Cyberforensic Cert. | 2016 | 7 | 1 | 14.3% | 3 | 42.9% |
| | 2017 | 4 | 1 | 25% | 1 | 25% |
| | 2018 | | | | | |
| | 2019 – 200% in progress | 3 | 0 | 0% | 0 | 0% |
| 3003 - Web Systems Software Dev | 2016 – 200% in progress | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS Info Tech - BSIT | 2014 | 102 | 34 | 33.3% | 42 | 41.2% |
| | 2015 | 60 | 10 | 16.7% | 12 | 20% |
| | 2016 | 61 | 12 | 19.7% | 16 | 26.2% |
| | 2017 – 200% In progress | 56 | 14 | 25% | 16 | 28.2% |
| | 2018 – In progress | 52 | 10 | 19.2% | 10 | 19.2% |

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

# Graduation Rates by Race/Ethnicity (1 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 300200 - Cybersecurity /Cyberfor. Cert. | 2016 | Asian | 1 | 0 | 0% | 0 | 0% |
| | | Black | 1 | 0 | 0% | 0 | 0% |
| | | White | 5 | 1 | 20% | 3 | 60% |
| | 2017 | Hispanic | 1 | 0 | 0% | 0 | 0% |
| | | White | 3 | 1 | 33.3% | 1 | 33.3% |
| | 2019 | White | 3 | 0 | 0% | 0 | 0% |
| 300300 - Web Systems Software Dev | 2016 | White | 1 | 0 | 0% | 0 | 0% |

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

# Graduation Rates by Race/Ethnicity (2 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 6334 - BS Info Tech - BSIT | 2015 | Asian | 1 | 0 | 0% | 0 | 0% |
| | | Black | 7 | 2 | 28.6% | 2 | 28.6% |
| | | Hispanic | 4 | 1 | 25% | 1 | 25% |
| | | Native Hawaiian | 1 | 0 | 0% | 0 | 0% |
| | | Unknown | 2 | 0 | 0% | 0 | 0% |
| | | White | 45 | 7 | 15.6% | 9 | 20% |
| | 2016 | Asian | 4 | 1 | 25% | 1 | 25% |
| | | Black | 4 | 0 | 0% | 0 | 0% |
| | | Hispanic | 13 | 0 | 0% | 0 | 0% |
| | | Two or More Races | 3 | 0 | 0% | 0 | 0% |
| | | White | 37 | 11 | 29.7% | 15 | 40.5% |
| | 2017 – 200% in progress | Asian | 2 | 1 | 50% | 1 | 50% |
| | | Black | 1 | 0 | 0% | 0 | 0% |
| | | Hispanic | 9 | 1 | 11.1% | 1 | 11.1% |
| | | Two or More Races | 4 | 1 | 25% | 1 | 25% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | | White | 39 | 11 | 28.2% | 13 | 33.3% |
| | 2018 – in progress | Asian | 2 | 1 | 50% | 1 | 50% |
| | | Black | 6 | 0 | 0% | 0 | 0% |
| | | Hispanic | 6 | 1 | 16.7% | 1 | 16.7% |
| | | Two or More Races | 1 | 0 | 0% | 0 | 0% |
| | | Unknown | 2 | 1 | 50% | 1 | 50% |
| | | White | 35 | 7 | 20% | 7 | 20% |

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

# Graduation Rates By Gender

| Major | Fall Term | Race/Ethnicity | # Students | Graduation | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | | | | Graduated within 150% Time | Graduation Rate | Graduated within 200% Time | Graduation Rate |
| 3002 - Cybersecurity/ Cyberforensic | 2016 | Female | 2 | 0 | 0% | 0 | 0% |
| | | Male | 4 | 1 | 25% | 3 | 75% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2017 | Female | 1 | 0 | 0% | 0 | 0% |
| | | Male | 3 | 1 | 33.3% | 1 | 33.3% |
| | 2019 | Male | 2 | 0 | 0% | 0 | 0% |
| | | PrefNoAns | 1 | 0 | 0% | 0 | 0% |
| 3003 – Web Systems Software Development | 2016 | Female | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS-Info Tech - BSIT | 2015 | Female | 14 | 0 | 0% | 0 | 0% |
| | | Male | 44 | 10 | 22.7% | 12 | 27.3% |
| | | PrefNoAns | 1 | 0 | 0% | 0 | 0% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2016 | Female | 17 | 2 | 11.8% | 2 | 11.8% |
| | | Male | 44 | 10 | 22.7% | 14 | 31.8% |
| | 2017 | Female | 19 | 1 | 5.3% | 2 | 10.5% |
| | | Male | 36 | 13 | 36.1% | 14 | 38.9% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2018 | Female | 11 | 3 | 27.3% | 3 | 27.3% |
| | | Male | 41 | 7 | 17.1% | 7 | 17.1% |

# 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% |
| | FA18 to SP19 | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | 4 | 0 | 4 | 0 | 0% | 2 | 50% | 50% |
| | FA20 to SP21 | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |
| 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% |
| | FA18 to SP19 | 0 | | | | | | | |
| | FA19 to SP20 | 0 | | | | | | | |
| | FA20 to SP21 | 0 | | | | | | | |

Source: IR Program Assessment Data

# 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% |
| | | 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% | 100% |
| | | Hispanic | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | | White | 6 | 0 | 6 | 1 | 17% | 4 | 67% | 83% |
| | FA18 to SP19 | White | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | White | 4 | 0 | 4 | 0 | 0% | 2 | 50% | 50% |
| | FA20 to SP21 | White | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |
| 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% |

Source: IR Program Assessment Data

# Persistence Rates by Gender

| Program and Cohort Year | | Gender | Registered | Exclusions | Adjusted Cohort | Persistence by DSC | | Persistence by Program | | DSC Total Persistence |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | N | % | N | % | |
| 3002 – Cybersecurity and Cyberforensics | FA18 to SP19 | Male | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | Female | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |
| | | Male | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |
| | FA20 to SP21 | Male | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |

# Retention Rates

| Program and Cohort Year | | Registered | Exclusions | Adjusted Cohort | Retained by DSC | | Retained by Program | | DSC Total Retained |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | % | N | % | |
| 6334 - BS Info Tech - BSIT | 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% |
| | 2017 | 186 | 24 | 162 | 4 | 2.5% | 116 | 71.6% | 74.1% |
| | 2018 | 198 | 27 | 171 | 0 | 0% | 126 | 73.7% | 73.7% |
| | 2019 | 196 | 46 | 150 | 5 | 3.3% | 100 | 66.7% | 70% |

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.

# Retention Rates by Race/Ethnicity

| Major | Fall Term | Race/Ethnicity | Registered | Exclusions | Adjusted Cohort | Retained by Program | |
|---|---|---|---|---|---|---|---|
| | | | | | | N | % |
| 6334- BS Information Technology | 2017 | Am. Ind | 1 | 0 | 1 | 0 | 0% |
| | | Asian | 4 | 1 | 3* | 1 | 33.3% |
| | | Black | 17 | 3 | 14 | 12 | 85.7% |
| | | Hawaii/Pac | 1 | 0 | 1 | 0 | 0% |
| | | Hispanic | 25 | 2 | 23* | 16 | 69.6% |
| | | Two or More Races | 6 | 1 | 5 | 5 | 100% |
| | | Unknown | 1 | 0 | 1 | 0 | 0% |
| | | White | 131 | 17 | 114* | 82 | 71.9% |
| | 2018 | Asian | 2 | 0 | 2 | 1 | 50% |
| | | Black | 19 | 1 | 18 | 10 | 55.6% |
| | | Hispanic | 27 | 0 | 27 | 23 | 85.2% |
| | | Two or More Races | 9 | 1 | 8 | 7 | 87.5% |
| | | Unknown | 3 | 0 | 3 | 2 | 66.7% |
| | | White | 138 | 25 | 113 | 83 | 73.5% |
| | 2019 | Am. Ind | 1 | 0 | 1 | 1 | 100% |
| | | Asian | 6 | 2 | 4 | 3 | 75% |
| | | Black | 14 | 2 | 12 | 7 | 58.3% |
| | | Hispanic | 30 | 7 | 23* | 14 | 60.9% |
| | | Two or More Races | 8 | 3 | 5* | 1 | 20% |
| | | Unknown | 3 | 0 | 3 | 3 | 100% |
| | | White | 134 | 32 | 102* | 71 | 69.6% |

*one or more students retained by DSC

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

# Retention Rates by Gender

| Major | Fall Term | Gender | Registered | Exclusions | Adjusted Cohort | Retained by Program | |
|---|---|---|---|---|---|---|---|
| | | | | | | N | % |
| 6334 - BS-Info Tech - BSIT | 2017 | Female | 45 | 4 | 41* | 28 | 71.6% |
| | | Male | 139 | 20 | 119* | 88 | 68.3% |
| | | Unknown | 2 | 0 | 2 | 0 | 0% |
| | 2018 | Female | 45 | 5 | 40 | 25 | 62.5% |
| | | Male | 152 | 22 | 130 | 101 | 77.7% |
| | | PrefNoAns | 1 | 0 | 1 | 0 | 0% |
| | 2019 | Female | 41 | 8 | 33* | 21 | 63.6% |
| | | Male | 150 | 37 | 113* | 76 | 67.3% |
| | | PrefNoAns | 3 | 0 | 3 | 2 | 66.7% |
| | | Unknown | 2 | 1 | 1 | 1 | 100% |

*one or more students retained by DSC

# Placement Rates

| Program Title | Major | 2013/14 | | 2014/15 | | 2015/16 | | 2016/17 | | 2017/18 | | 2018/19 | | Average Annual Salary |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | |
| BS Information Technology | 6334 | 43% | 69% | N/A | 75% | 79% | 77% | 79% | 79% | 81% | 81% | 72% | 79% | $51,160 |
| Cybersecurity and Cyberforensics | 3002 | | | 75% | 75% | ***% | 79% | 100% | 100% | 50% | 57% | 100% | 86% | $**,*** |
| Web System Software Development | 3003 | | | | | | | 100% | 100% | 0% | 0% | 0% | 0% | $**,*** |

*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: Florida Education Training Placement Information Program (FETPIP)

# Course Success Rates

| Major | Course | 2017-2018 | | 2018-2019 | | 2019-2020 | | 2020-2021 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| 6334- BS Information Technology | CDA4101 | 57 | 88% | 52 | 88% | 56 | 93% | 38 | 89% |
| | CEN3722 | 63 | 83% | 71 | 86% | 73 | 71% | 33 | 76% |
| | CEN4010 | 27 | 89% | 41 | 100% | 43 | 95% | 31 | 84% |
| | CEN4801 | 22 | 82% | 20 | 100% | 44 | 91% | 33 | 97% |
| | CET3116 | 118 | 57% | 81 | 63% | 25 | 68% | 55 | 62% |
| | CET4860 | 41 | 88% | 57 | 75% | 53 | 70% | 36 | 64% |
| | CET4861 | 36 | 83% | 31 | 87% | 30 | 90% | 20 | 85% |
| | CET4862 | 24 | 71% | 40 | 85% | 30 | 77% | 20 | 60% |
| | CET4884 | 33 | 88% | 31 | 84% | 32 | 94% | 30 | 87% |
| | CIS4250 | 44 | 91% | 50 | 94% | 53 | 92% | 37 | 81% |
| | CIS4360 | 75 | 67% | 76 | 57% | 46 | 65% | 44 | 55% |
| | CIS4510 | | | 12 | 83% | 13 | 92% | 20 | 100% |
| | CNT3104 | 48 | 92% | 61 | 98% | 49 | 92% | 32 | 100% |
| | CNT4007 | 44 | 95% | 53 | 92% | 40 | 95% | 36 | 94% |
| | CNT4703 | 26 | 85% | 37 | 95% | 52 | 94% | 42 | 86% |
| | COP3530 | 60 | 63% | 58 | 76% | 62 | 69% | 57 | 63% |
| | COP4610 | 59 | 98% | 60 | 97% | 40 | 85% | 44 | 95% |
| | COP4708 | 46 | 78% | 72 | 85% | 56 | 80% | 47 | 91% |
| | COP4709 | 6 | 83% | 15 | 80% | 12 | 92% | 15 | 47% |
| | COP4813 | 23 | 87% | 35 | 86% | 42 | 93% | 37 | 86% |
| | COP4834 | 4 | 100% | 7 | 100% | 8 | 100% | 9 | 78% |
| | COT3100 | 74 | 80% | 47 | 81% | 80 | 84% | 77 | 71% |
| | CTS3348 | 59 | 68% | 44 | 68% | 37 | 76% | 15 | 60% |
| | Major | 989 | 79% | 1051 | 83% | 976 | 84% | 808 | 79% |

Source: IR Program Assessment Data

# Course Success Rates by Race/Ethnicity

| Program, Course, Race/Ethnicity | 2018-2019 Enroll | Success | 2019-2020 Enroll | Success | 2020-2021 Enroll | Success |
|---|---|---|---|---|---|---|
| 6334 - BSIT | 1051 | 83% | 976 | 84% | 808 | 79% |
| CDA4101 | 52 | 88% | 56 | 93% | 38 | 89% |
| Am. Ind | | | | | 1 | 100% |
| Asian | 2 | 100% | | | 2 | 100% |
| Black | 1 | 100% | 3 | 100% | 3 | 100% |
| Hispanic | 12 | 83% | 5 | 60% | 9 | 89% |
| Two or More Races | 3 | 100% | 3 | 100% | 3 | 100% |
| Unknown | | | 2 | 100% | 1 | 100% |
| White | 34 | 88% | 43 | 95% | 19 | 84% |
| CEN3722 | 71 | 86% | 73 | 71% | 33 | 76% |
| Am. Ind | | | | | 1 | 100% |
| Asian | 1 | 0% | 3 | 100% | 2 | 100% |
| Black | 7 | 57% | 9 | 67% | | |
| Hispanic | 8 | 88% | 11 | 82% | 2 | 50% |
| Two or More Races | 2 | 50% | 2 | 100% | | |
| Unknown | | | 1 | 100% | | |
| White | 51 | 92% | 47 | 66% | 28 | 75% |
| CEN4010 | 41 | 100% | 43 | 95% | 31 | 84% |
| Am. Ind | | | | | 1 | 100% |
| Asian | | | 1 | 100% | 2 | 100% |
| Black | 3 | 100% | 2 | 100% | 2 | 50% |
| Hispanic | 4 | 100% | 4 | 100% | 6 | 83% |
| Two or More Races | 2 | 100% | 1 | 100% | | |
| Unknown | 1 | 100% | 2 | 100% | | |
| White | 31 | 100% | 33 | 94% | 20 | 85% |
| CEN4801 | 20 | 100% | 44 | 91% | 33 | 97% |
| Asian | 1 | 100% | | | 2 | 100% |
| Black | | | 3 | 67% | 2 | 100% |
| Hispanic | 1 | 100% | 8 | 88% | 5 | 100% |
| Two or More Races | | | 2 | 100% | | |
| Unknown | | | 1 | 100% | | |
| White | 18 | 100% | 30 | 93% | 24 | 96% |

| Program, Course, Race/Ethnicity | 2018-2019 Enroll | Success | 2019-2020 Enroll | Success | 2020-2021 Enroll | Success |
|---|---|---|---|---|---|---|
| CET3116 | 81 | 63% | 25 | 68% | 55 | 62% |
| Am. Ind | 1 | 100% | 1 | 100% | | |
| Asian | 4 | 50% | 4 | 75% | 1 | 100% |
| Black | 10 | 20% | 2 | 50% | 4 | 100% |
| Hispanic | 10 | 90% | 1 | 100% | 5 | 20% |
| Two or More Races | 9 | 67% | 1 | 100% | 2 | 100% |
| Unknown | 2 | 100% | | | 2 | 50% |
| White | 45 | 64% | 16 | 63% | 41 | 61% |
| CET4860 | 57 | 75% | 53 | 70% | 36 | 64% |
| Asian | 1 | 0% | 3 | 33% | 3 | 67% |
| Black | 6 | 50% | | | 1 | 0% |
| Hispanic | 8 | 63% | 8 | 63% | 4 | 75% |
| Two or More Races | | | 1 | 100% | | |
| Unknown | 3 | 67% | 2 | 100% | | |
| White | 39 | 85% | 39 | 72% | 28 | 64% |
| CET4861 | 31 | 87% | 30 | 90% | 20 | 85% |
| Am. Ind | | | | | 1 | 100% |
| Black | | | 3 | 100% | | |
| Hispanic | 4 | 75% | 4 | 100% | 3 | 67% |
| Unknown | | | 1 | 100% | 1 | 100% |
| White | 27 | 89% | 22 | 86% | 15 | 87% |
| CET4862 | 40 | 85% | 30 | 77% | 20 | 60% |
| Am. Ind | | | | | 1 | 100% |
| Black | 3 | 100% | | | 3 | 33% |
| Hispanic | 4 | 100% | 5 | 80% | 2 | 0% |
| Two or More Races | | | 2 | 100% | | |
| Unknown | | | | | 1 | 100% |
| White | 33 | 82% | 23 | 74% | 13 | 69% |
| CET4884 | 31 | 84% | 32 | 94% | 30 | 87% |
| Am. Ind | 1 | 100% | | | | |
| Asian | | | 3 | 100% | | |
| Black | 4 | 50% | 1 | 100% | 1 | 100% |
| Hispanic | 3 | 67% | 4 | 75% | 3 | 67% |
| Two or More Races | 1 | 100% | 1 | 100% | 1 | 100% |
| Unknown | | | 1 | 100% | 1 | 100% |
| White | 22 | 91% | 22 | 95% | 24 | 88% |

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

| Program, Course, Race/Ethnicity | 2018-2019 Enroll | 2018-2019 Success | 2019-2020 Enroll | 2019-2020 Success | 2020-2021 Enroll | 2020-2021 Success |
|---|---|---|---|---|---|---|
| **CIS4250** | 50 | 94% | 53 | 92% | 37 | 81% |
| American Indian | | | | | 2 | 100% |
| Asian | 1 | 0% | 6 | 100% | | |
| Black | 6 | 67% | 3 | 100% | 1 | 0% |
| Hispanic | 6 | 100% | 11 | 82% | 4 | 50% |
| Two or More Races | 1 | 100% | 2 | 100% | 2 | 100% |
| Unknown | | | 2 | 100% | | |
| White | 36 | 100% | 29 | 93% | 28 | 86% |
| **CIS4360** | 76 | 57% | 46 | 65% | 44 | 55% |
| Asian | 3 | 33% | 3 | 33% | 7 | 71% |
| Black | 9 | 33% | 2 | 50% | | |
| Hispanic | 16 | 38% | 8 | 63% | 6 | 17% |
| Two or More Races | 4 | 75% | 3 | 67% | | |
| Unknown | 3 | 100% | 1 | 100% | | |
| White | 41 | 66% | 29 | 69% | 31 | 58% |
| **CIS4510** | 12 | 83% | 13 | 92% | 20 | 100% |
| Asian | 1 | 100% | 2 | 100% | 2 | 100% |
| Black | 2 | 50% | | | 1 | 100% |
| Hispanic | 1 | 100% | | | 5 | 100% |
| Two or More Races | 1 | 100% | 1 | 100% | | |
| Unknown | | | | | 1 | 100% |
| White | 7 | 86% | 10 | 90% | 11 | 100% |
| **CNT3104** | 61 | 98% | 49 | 92% | 32 | 100% |
| American Indian | | | | | 1 | 100% |
| Asian | | | 3 | 100% | 1 | 100% |
| Black | 6 | 100% | 2 | 100% | 1 | 100% |
| Hispanic | 9 | 100% | 8 | 100% | 3 | 100% |
| Two or More Races | 4 | 100% | 1 | 100% | 1 | 100% |
| Unknown | | | 2 | 100% | 1 | 100% |
| White | 42 | 98% | 33 | 88% | 24 | 100% |
| **CNT4007** | 53 | 92% | 40 | 95% | 36 | 94% |
| American Indian | | | | | 1 | 100% |
| Asian | | | | | 4 | 100% |
| Black | 5 | 80% | 1 | 100% | 1 | 100% |
| Hispanic | 7 | 100% | 2 | 100% | 6 | 83% |
| Two or More Races | 3 | 100% | 6 | 83% | 1 | 100% |
| Unknown | | | 1 | 100% | 1 | 100% |
| White | 38 | 92% | 30 | 97% | 22 | 95% |
| **CNT4703** | 37 | 95% | 52 | 94% | 42 | 86% |
| American Indian | | | | | 1 | 100% |
| Asian | 2 | 100% | 1 | 100% | 3 | 67% |
| Black | 4 | 100% | 3 | 100% | 2 | 100% |
| Hispanic | 2 | 100% | 7 | 100% | 4 | 75% |
| Two or More Races | 2 | 50% | 3 | 100% | | |
| Unknown | | | | | 2 | 100% |
| White | 26 | 96% | 38 | 92% | 30 | 87% |

| Program, Course, Race/Ethnicity | 2018-2019 Enroll | 2018-2019 Success | 2019-2020 Enroll | 2019-2020 Success | 2020-2021 Enroll | 2020-2021 Success |
|---|---|---|---|---|---|---|
| **COP3530** | 58 | 76% | 62 | 69% | 57 | 63% |
| American Indian | | | 1 | 0% | 1 | 100% |
| Asian | 1 | 100% | 4 | 75% | 4 | 50% |
| Black | 5 | 40% | 5 | 40% | 1 | 100% |
| Hispanic | 13 | 77% | 10 | 70% | 8 | 50% |
| Two or More Races | 4 | 50% | 1 | 100% | 1 | 0% |
| Unknown | 2 | 100% | 1 | 100% | | |
| White | 33 | 82% | 40 | 73% | 42 | 67% |
| **COP4610** | 60 | 97% | 40 | 85% | 44 | 95% |
| Asian | 1 | 100% | 1 | 100% | 3 | 100% |
| Black | 4 | 100% | 3 | 100% | 1 | 100% |
| Hispanic | 11 | 100% | 7 | 86% | 3 | 100% |
| Two or More Races | 8 | 100% | | | | |
| Unknown | 2 | 100% | | | 1 | 100% |
| White | 34 | 94% | | | 36 | 94% |
| **COP4708** | 72 | 85% | 29 | 83% | 47 | 91% |
| American Indian | | | 56 | 80% | 1 | 100% |
| Asian | | | 1 | 100% | 3 | 100% |
| Black | 5 | 40% | 5 | 80% | 4 | 75% |
| Hispanic | 12 | 92% | 4 | 50% | 2 | 100% |
| Two or More Races | 2 | 100% | 8 | 63% | 2 | 100% |
| Unknown | 3 | 100% | 1 | 100% | | |
| White | 50 | 86% | 37 | 86% | 35 | 91% |
| **COP4709** | 15 | 80% | 12 | 92% | 15 | 47% |
| American Indian | | | | | 1 | 100% |
| Asian | 1 | 100% | | | 3 | 33% |
| Black | 2 | 50% | | | 1 | 0% |
| Hispanic | 1 | 100% | 1 | 100% | 2 | 50% |
| Two or More Races | 1 | 100% | 1 | 100% | | |
| Unknown | | | | | 1 | 100% |
| White | 10 | 80% | 10 | 90% | 7 | 43% |
| **COP4813** | 35 | 86% | 42 | 93% | 37 | 86% |
| Asian | 1 | 100% | 1 | 100% | 2 | 50% |
| Black | 2 | 0% | 4 | 50% | 3 | 100% |
| Hispanic | 1 | 0% | 9 | 100% | 6 | 83% |
| Two or More Races | 1 | 100% | 1 | 100% | 1 | 100% |
| Unknown | 1 | 100% | 1 | 100% | 1 | 100% |
| White | 29 | 93% | 26 | 96% | 24 | 88% |

Source: IR Program Assessment Data

# Course Success Rates by Race/Ethnicity (3 of 3)

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | | 2020-2021 | |
|---|---|---|---|---|---|---|
| | Enroll | Success | Enroll | Success | Enroll | Success |
| **COP4834** | 7 | 100% | 8 | 100% | 9 | 78% |
| Asian | 1 | 100% | | | | |
| Black | | | | | 1 | 0% |
| Hispanic | | | 1 | 100% | 2 | 100% |
| Two or More Races | 1 | 100% | | | | |
| Unknown | | | | | 1 | 100% |
| White | 5 | 100% | 7 | 100% | 5 | 80% |
| **COT3100** | 47 | 81% | 80 | 84% | 77 | 71% |
| American Indian | | | 1 | 100% | | |
| Asian | 1 | 100% | 5 | 100% | 6 | 67% |
| Black | 4 | 50% | 1 | 100% | 4 | 50% |
| Hispanic | 9 | 78% | 10 | 90% | 11 | 64% |
| Two or More Races | 2 | 100% | 3 | 100% | 3 | 100% |
| Unknown | 1 | 100% | | | 1 | 100% |
| White | 30 | 83% | 60 | 80% | 52 | 73% |
| **CTS3348** | 44 | 68% | 37 | 76% | 15 | 60% |
| Asian | | | 4 | 75% | 1 | 100% |
| Black | 6 | 33% | 2 | 0% | 1 | 100% |
| Hispanic | 4 | 75% | 3 | 100% | 1 | 0% |
| Two or More Races | 1 | 100% | 3 | 67% | | |
| Unknown | 2 | 100% | 1 | 100% | | |
| White | 31 | 71% | 24 | 79% | 12 | 58% |
| **Grand Total** | 1051 | 83% | 976 | 84% | 808 | 79% |

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 Race/Ethnicity

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | | 2020-2021 | |
|---|---|---|---|---|---|---|
| | Enroll | Success | Enroll | Success | Enroll | Success |
| Am. Ind | 3 | 100% | 4 | 75% | 13 | 100% |
| Asian | 22 | 68% | 50 | 84% | 54 | 76% |
| Black | 94 | 56% | 54 | 72% | 35 | 77% |
| Hispanic | 146 | 82% | 139 | 83% | 102 | 69% |
| Two or More Races | 55 | 84% | 33 | 94% | 17 | 94% |
| Unknown | 19 | 100% | 19 | 100% | 16 | 94% |
| White | 712 | 87% | 677 | 84% | 571 | 80% |
| Grand Total | 1051 | 83% | 976 | 84% | 808 | 79% |

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

# CIVITAS – Illume Students
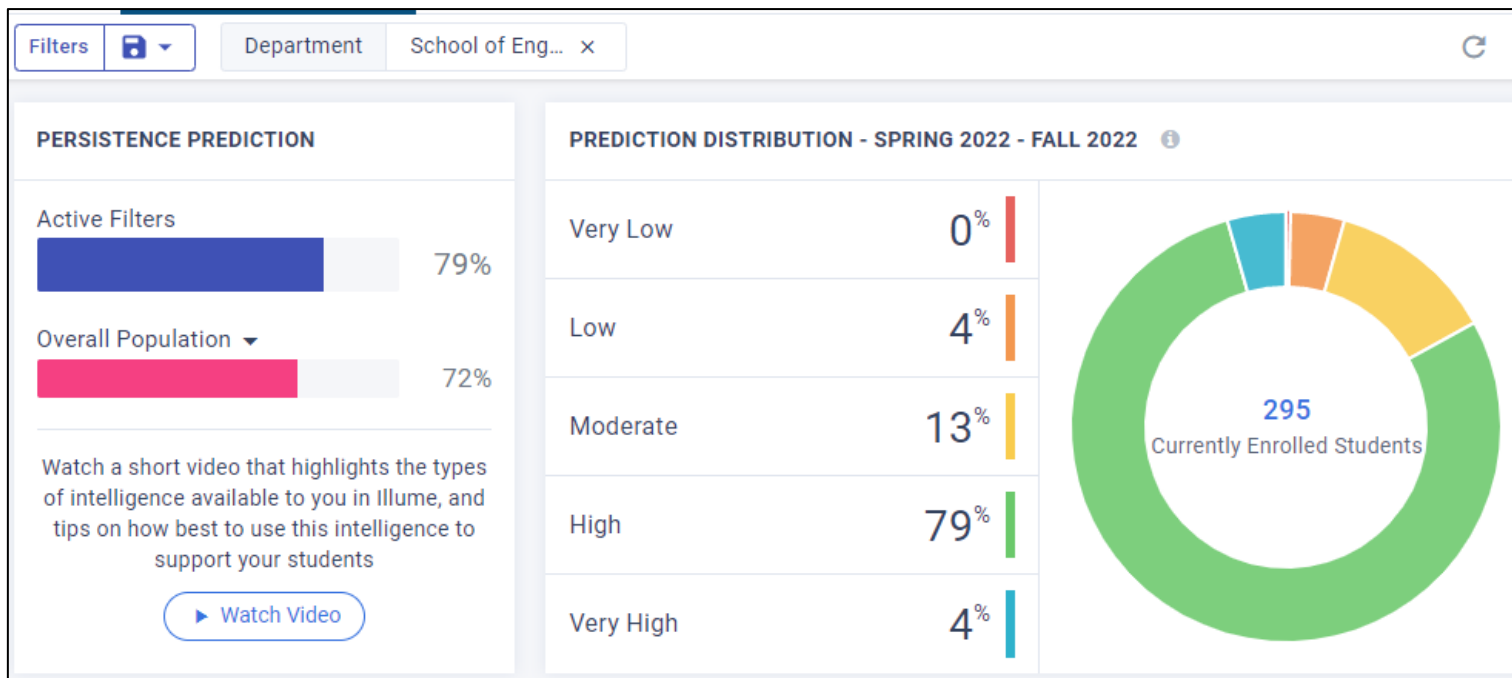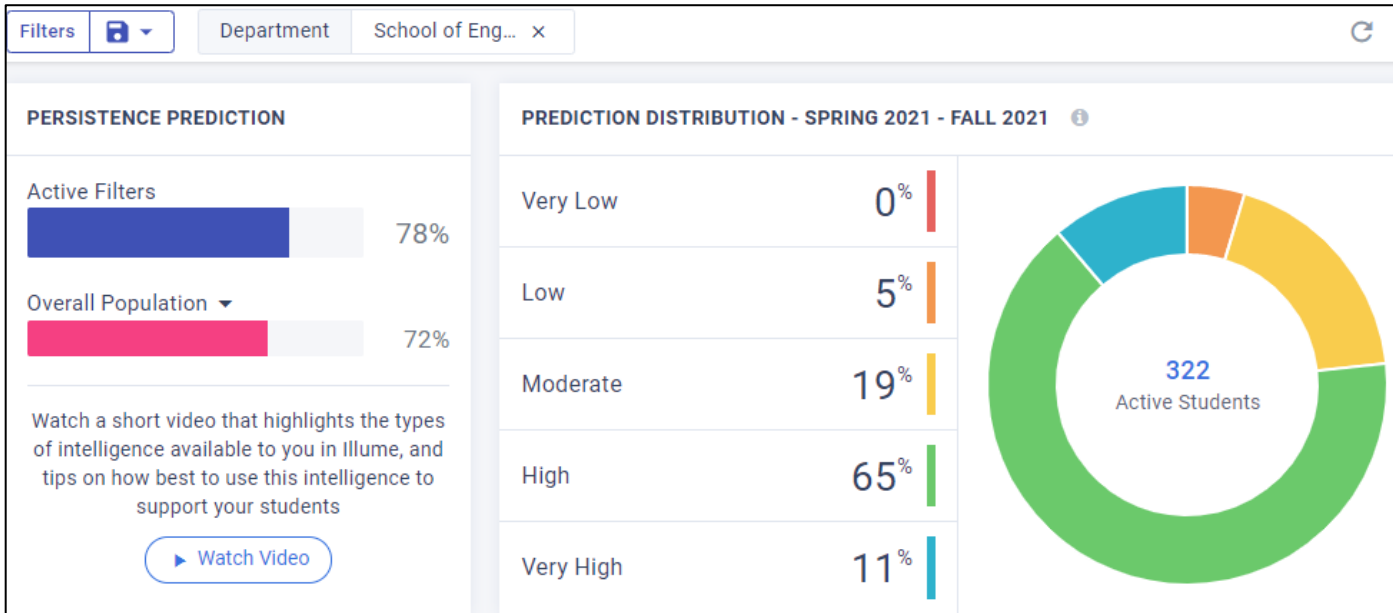
*Captured on 3/1/2021*



*Captured on 2/22/2022*

# CIVITAS – Completion Insights

*Captured on 1/13/2021*
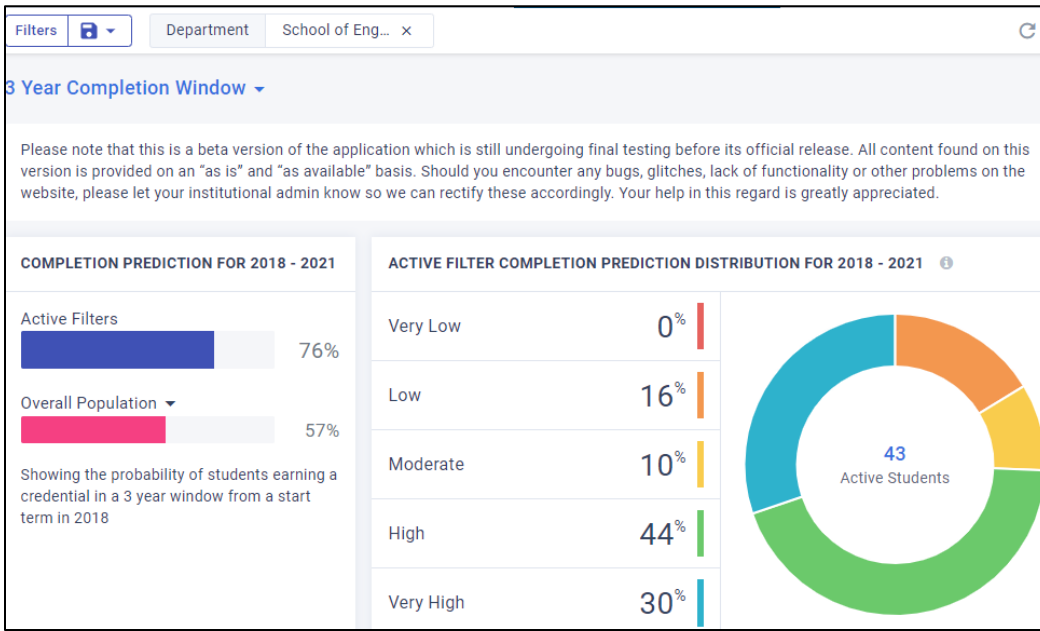


*Captured on 2/22/2022*
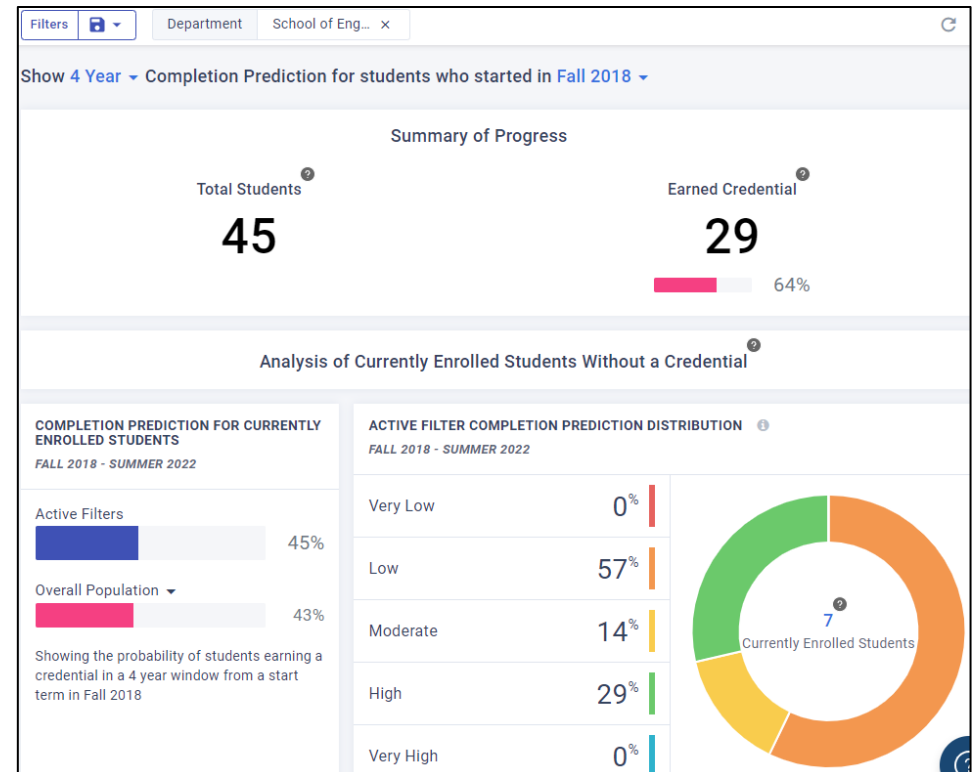
# CIVITAS – Illume Courses



Explore courses where:

**A student's course grade strongly signals graduation likelihood** ⌄

These are courses where a single letter-grade difference creates the biggest boost in graduation likelihood for an individual student. Advising students to prioritize these courses could increase their graduation likelihood.

Department | School of Engineering Technology ✕ | ✕ Clear All | ⊕ Add Filters

6 Courses | •⦿ Bubble Size ⌄ | ⬇ Export Courses

⦿ Year 1 | ⦿ Year 2

More ↑
GRADE SIGNAL
Less

YEAR TYPICALLY TAKEN

→ **Highest Grade Signal**

- ● **MAC-1140** : Pre-Calculu... >
- ● **STA-2023** : Elementary ... >
- ● **ENC-1102** : Writing with ... >
- ● **GEB-3213** : Business Wr... >
- ● **MAC-1105** : College Alg... >
- ● **CET-3116** : Digital Techn... >

*Captured on 2/22/2022*

# ASSESSMENT DAY

College of Business, Engineering, and Technology
School of Engineering and Information Technology
BSIT
March 1, 2021

Strengths

Challenges

Recommendations

# Academic Assessment

| | LEVEL | FOCUS | CONDUCTED BY | FREQUENCY |
|---|---|---|---|---|
| **Academic Success Committee** | Program | • Quality of assessment practices | Committee of peers | Years 1 & 2 |
| **Instructional Program Review** | Program / Cluster | • Enrollment, retention, completion<br>• Industry certifications and job placement<br>• Program budget and staffing<br>• Advisory committees<br>• Curriculum changes | Committee of peers | Year 3 |
| **Assessment Day** | Course/ Program | • Enrollment by demographics<br>• Graduation and retention<br>• Average class size<br>• Course success rate<br>• Placement rate<br>• 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

**BSIT Assessment Day:  (01/27/2020)**

- Fix hidden pre-req issue with 3003 and 3002 programs;

- Continuous improvement for courses;

- Faculty brief bio sent to Cheryl for the active directory

# Program Educational Objectives

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

**1. Career:** Graduates will hold progressively more responsible positions in the IT field, including positions that are supervisory or managerial in nature.

**2. Skills:** Graduates will communicate effectively as an IT professional with users, peers, and higher management. They will solve problems using different and up-to-date methodologies. Use mathematical and scientific concepts that underlie information technology applications. They will work with teams exhibiting quality and timeliness.

**3. Professionalism and Ethics:** Graduates will demonstrate ethical behavior as an IT professional and sensitivity to the impact of technology on society. They will be involved as a member of the local and global communities acting as responsible technical professionals.

**4. Life-Long-Learning:** Graduates will pursue and successfully complete an advanced degree and/or obtain offered IT certificates as necessary for the duties of the profession.

# 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.

# Program Learning Outcomes

**Cybersecurity and Cyberforensics Certificate- 3002**

Graduates of the program will be able to:

1. Design security solutions based on policies and risk management.
2. Employ forensic procedures to preserve the integrity of digital evidence.
3. Analyze file systems common to Windows, Linux, and Mac operating systems.
4. Manage computer and network incidents and intrusions.
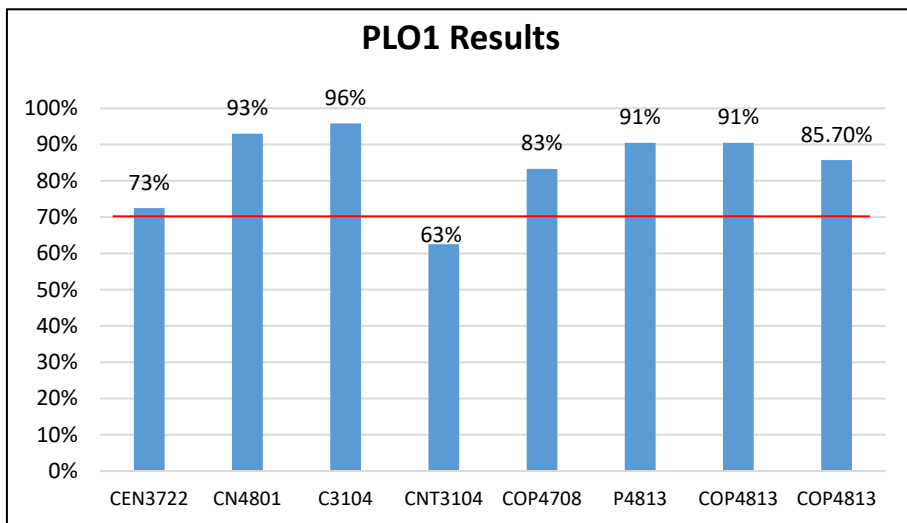5. Design security audits, continuity of operations planning, and disaster recovery.

# Program Learning Outcomes

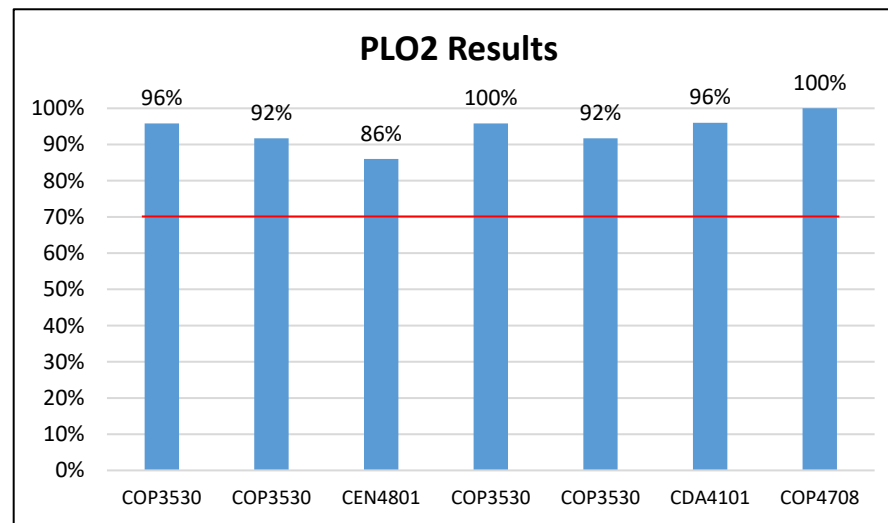**Web Systems Software Development 3003**

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.
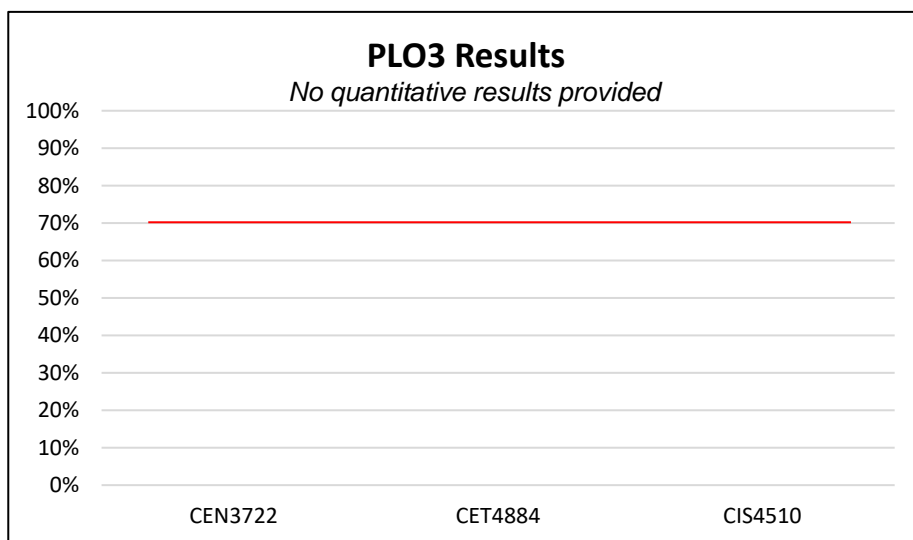
# Assessment Results 2020-2021

## PLO1 Results



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.*
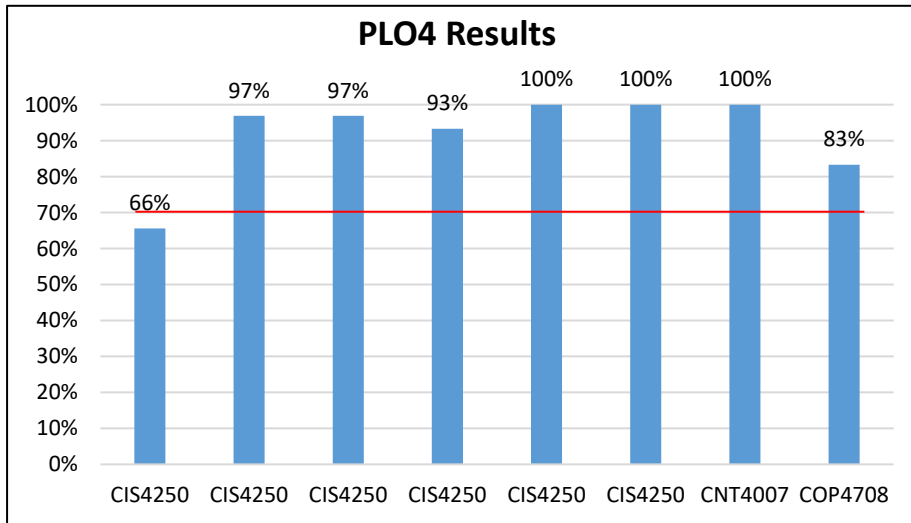
## PLO2 Results



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.*
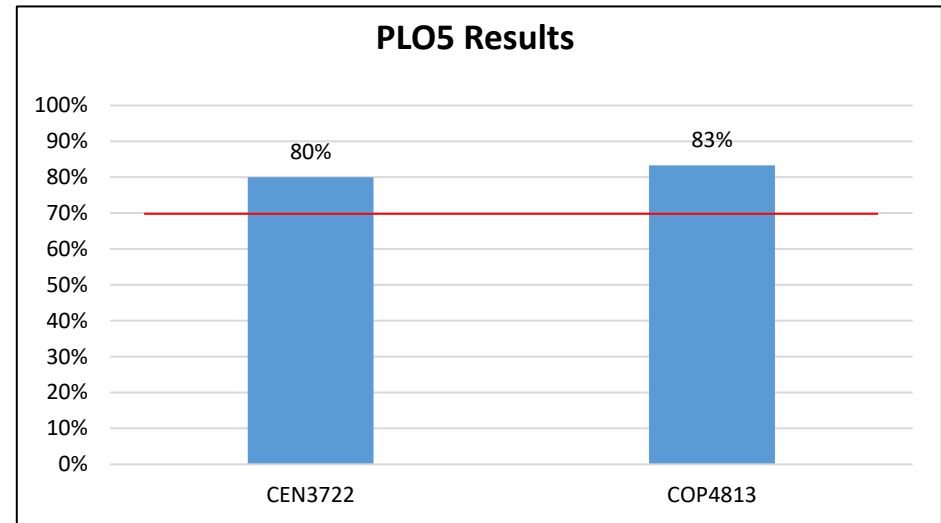
## PLO3 Results
*No quantitative results provided*



PLO 3: Communicate effectively in a variety of professional contexts. *Target: 70% of students will achieve 70% or higher.*
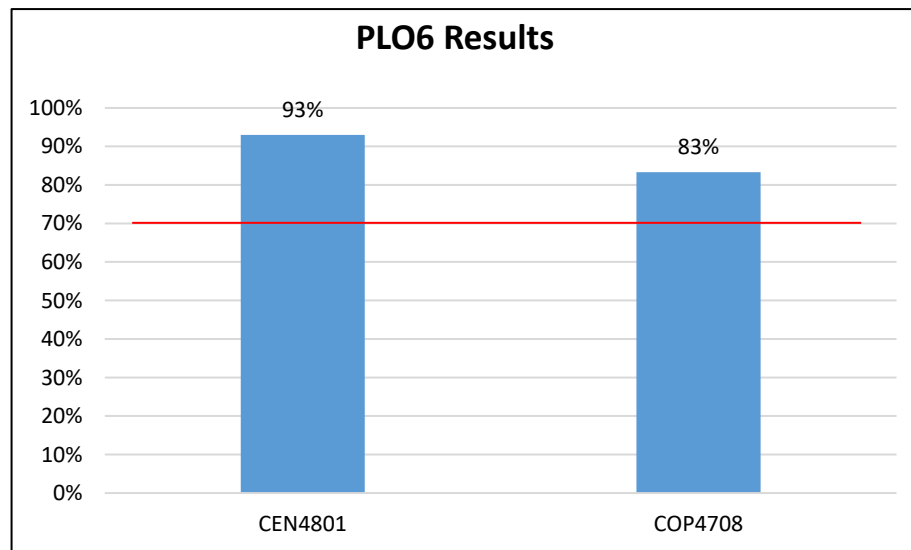
# Assessment Results 2020-2021

## PLO4 Results



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.*

## PLO5 Results



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 Results



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 2018-2019 and 2019-2020:
# Programs and Institutional Learning Outcomes

| Program | Critical/ Creative Thinking | | Communication | | Cultural Literacy | | Information and Technical Literacy | |
|---|---|---|---|---|---|---|---|---|
| | 18/19 | 19/20 | 18/19 | 19/20 | 18/19 | 19/20 | 18/19 | 19/20 |
| Bachelor of Science in Information Technology (BSIT) - 6334 | 75%-100% | 62.5%-100% | 75%-100% | 80%-83.3% | 90%-100% | 65.6%-100% | 79%-100% | 62.5%-95.8% |
| 3002 - Cybersecurity and Cyberforensics | 75%-100% | 62.5%-100% | 75%-100% | 80%-83.3% | 90%-100% | 65.6%-100% | 79%-100% | 62.5%-95.8% |
| 3003 – Web Systems Software Development | 75%-100% | 62.5%-100% | 75%-100% | 80%-83.3% | 90%-100% | 65.6%-100% | 79%-100% | 62.5%-95.8% |

# Headcount by Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 |
|---|---|---|---|---|
| 3002 - CYBERSEC./CYBERFORENSIC | 16 | 12 | 4 | 5 |
| 3003 -  WEB SYSTEMS SOFTWARE DEVELOPMENT | 2 | 1 | 1 | 0 |
| 6334 - BS-INFO TECH - BSIT | 237 | 271 | 244 | 214 |

Source: IR Program Assessment Data

*Students are duplicated across programs, unduplicated in the total.*

# Graduates in Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 |
|---|---|---|---|---|
| 3002 - Cybersec./Cyberforensic | 9 | 7 | 1 | 12 |
| 3003 – Web Systems Software Development | 4 | 1 | 1 | 4 |
| 6334 - BS-Info Tech - BSIT | 29 | 25 | 29 | 45 |
| Department Total | 42 | 33 | 31 | 61 |

*Blank cells or missing years indicate no graduates.*

Source: IR Program Assessment Data

# Number of Graduates by Race/Ethnicity

| Program, Race/Ethnicity | 2018-2019 | 2019-2020 |
|---|---|---|
| **300200 - Cybersecurity/Cyberfor. Cert.** | **1** | **12** |
| Black | | 2 |
| Hispanic/Latino | | 1 |
| White | 1 | 9 |
| **300300 - Web Systems Software Dev** | **1** | **4** |
| Hispanic/Latino | | 1 |
| White | 1 | 3 |
| **633400 - Information Technology B.S.** | **29** | **45** |
| Asian | 1 | 1 |
| Black | 3 | 2 |
| Hispanic/Latino | 1 | 7 |
| Two or More Races | 1 | 3 |
| White | 23 | 32 |
| **Grand Total** | **31** | **61** |

Source: IR Program Assessment Data

## Average of Yrs to Degree

| Program, Race/Ethnicity | 2019-2020 Cohort |
|---|---|
| 300200 - Cybersecurity/Cyberfor. Cert. | 0.02* |
| 300300 - Web Systems Software Dev | 0* |
| 633400 - Information Technology B.S. | 2.8 |

*Certs are not in the system until the last semester

Source: IR Program Assessment Data

# Graduation Rates

| Major | Fall Cohort Year | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|
| 3002 - Cybersecurity/ Cyberfor. Cert. | 2016 | 7 | 1 | 14.3% | 3 | 42.9% |
| | 2017 | 4 | 1 | 25% | 1 | 25% |
| | 2018 – 200% in progress | | | | | |
| | 2019 – In progress | 4 | 0 | 0% | 0 | 0% |
| 3003 - Web Systems Software Dev | 2016 | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS Info Tech - BSIT | 2014 | 102 | 34 | 33.3% | 42 | 41.2% |
| | 2015 | 60 | 10 | 16.7% | 12 | 20% |
| | 2016 – 200% in progress | 61 | 12 | 19.7% | 16 | 26.2% |
| | 2017 – In progress | 56 | 14 | 25% | 14 | 25% |

*Workforce Completion Rate for 150%: 34.28% and for 200%: 41.09%*

Source: IR Program Assessment Data

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

# Graduation Rates by Race/Ethnicity (1 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 300200 - Cybersecurity/ Cyberfor. Cert. | 2016 | Asian | 1 | 0 | 0% | 0 | 0% |
| | | Black | 1 | 0 | 0% | 0 | 0% |
| | | White | 5 | 1 | 20% | 3 | 60% |
| | 2017 | Hispanic | 1 | 0 | 0% | 0 | 0% |
| | | White | 3 | 1 | 33.3% | 1 | 33.3% |
| | 2019 | White | 4 | 0 | 0% | 0 | 0% |
| 300300 - Web Systems Software Dev | 2016 | White | 1 | 0 | 0% | 0 | 0% |

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

# Graduation Rates by Race/Ethnicity (2 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 6334 - BS Info Tech - BSIT | 2015 | Asian | 1 | 0 | 0% | 0 | 0% |
| | | Black | 7 | 2 | 28.6% | 2 | 28.6% |
| | | Hispanic | 4 | 1 | 25% | 1 | 25% |
| | | Native Hawaiian | 1 | 0 | 0% | 0 | 0% |
| | | Unknown | 2 | 0 | 0% | 0 | 0% |
| | | White | 45 | 7 | 15.6% | 9 | 20% |
| | 2016 –200% in progress | Asian | 4 | 1 | 25% | 1 | 25% |
| | | Black | 4 | 0 | 0% | 0 | 0% |
| | | Hispanic | 13 | 0 | 0% | 0 | 0% |
| | | Two or More Races | 3 | 0 | 0% | 0 | 0% |
| | | White | 37 | 11 | 29.7% | 15 | 40.5% |
| | 2017 – in progress | Asian | 2 | 1 | 50% | 1 | 50% |
| | | Black | 1 | 0 | 0% | 0 | 0% |
| | | Hispanic | 9 | 1 | 11.1% | 1 | 11.1% |
| | | Two or More Races | 4 | 1 | 25% | 1 | 25% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | | White | 39 | 11 | 28.2% | 11 | 28.2% |

Fall terms include prior Summer term enrollment in major.
Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

# Graduation Rates By Gender

| Major | Fall Term | Race/Ethnicity | # Students | Graduation | | | |
|---|---|---|---|---|---|---|---|
| | | | | Graduated within 150% Time | Graduation Rate | Graduated within 200% Time | Graduation Rate |
| 3002 - Cybersec./Cyberforensic | 2016 | Female | 2 | 0 | 0% | 0 | 0% |
| | | Male | 4 | 1 | 25% | 3 | 75% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2017 | Female | 1 | 0 | 0% | 0 | 0% |
| | | Male | 3 | 1 | 33.3% | 1 | 33.3% |
| | 2019 | Female | 1 | 0 | 0% | 0 | 0% |
| | | Male | 2 | 0 | 0% | 0 | 0% |
| | | PrefNoAns | 1 | 0 | 0% | 0 | 0% |
| 3003 – Web Systems Software Development | 2016 | Female | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS-Info Tech - BSIT | 2015 | Female | 14 | 0 | 0% | 0 | 0% |
| | | Male | 44 | 10 | 22.7% | 12 | 27.3% |
| | | PrefNoAns | 1 | 0 | 0% | 0 | 0% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2016 | Female | 17 | 2 | 11.8% | 2 | 11.8% |
| | | Male | 44 | 10 | 22.7% | 14 | 31.8% |
| | 2017 | Female | 19 | 1 | 5.3% | 1 | 5.3% |
| | | Male | 36 | 13 | 36.1% | 13 | 36.1% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |

# 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% |
| | FA18 to SP19 | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | 4 | 0 | 4 | 0 | 0% | 2 | 50% | 50% |
| 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% |
| | FA18 to SP19 | 0 | | | | | | | |
| | FA19 to SP20 | 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% |
| | | 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% | 100% |
| | | Hispanic | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | | White | 6 | 0 | 6 | 1 | 17% | 4 | 67% | 83% |
| | FA18 to SP19 | White | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | White | 4 | 0 | 4 | 0 | 0% | 2 | 50% | 50% |
| 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% |

Source: IR Program Assessment Data

# Persistence Rates by Gender

| 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 | FA18 to SP19 | Male | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | FA19 to SP20 | Female | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |
| | | Male | 2 | 0 | 2 | 0 | 0% | 1 | 50% | 50% |

Source: IR Program Assessment Data

# Retention Rates

| Program and Cohort Year | | Registered | Exclusions | Adjusted Cohort | Retained by DSC | | Retained by Program | | DSC Total Retained |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | % | N | % | |
| 6334 - BS Info Tech - BSIT | 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% |
| | 2017 | 186 | 24 | 162 | 4 | 2.5% | 116 | 71.6% | 74.1% |
| | 2018 | 198 | 27 | 171 | 0 | 0% | 126 | 73.7% | 73.7% |

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.

# Retention Rates by Race/Ethnicity

| Major | Fall Term | Race/Ethnicity | Registered | Exclusions | Adjusted Cohort | Retained by Program N | Retained by Program % |
|---|---|---|---|---|---|---|---|
| 6334- BS Information Technology | 2017 | Am. Ind | 1 | 0 | 1 | 0 | 0% |
| | | Asian | 4 | 1 | 3* | 1 | 33.3% |
| | | Black | 17 | 3 | 14 | 12 | 85.7% |
| | | Hawaii/Pac | 1 | 0 | 1 | 0 | 0% |
| | | Hispanic | 25 | 2 | 23* | 16 | 69.6% |
| | | Two or More Races | 6 | 1 | 5 | 5 | 100% |
| | | Unknown | 1 | 0 | 1 | 0 | 0% |
| | | White | 131 | 17 | 114** | 82 | 71.9% |
| | 2018 | Asian | 2 | 0 | 2 | 1 | 50% |
| | | Black | 19 | 1 | 18 | 10 | 55.6% |
| | | Hispanic | 27 | 0 | 27 | 23 | 85.2% |
| | | Two or More Races | 9 | 1 | 8 | 7 | 87.5% |
| | | Unknown | 3 | 0 | 3 | 2 | 66.7% |
| | | White | 138 | 25 | 113 | 83 | 73.5% |

*one student retained by DSC; **two students retained by DSC

*Retention of Underserved Populations: 56.25% Black, 57.95% Hispanic, and 73.08% Unknown*

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.

# Retention Rates by Gender

| Major | Fall Term | Gender | Registered | Exclusions | Adjusted Cohort | Retained by Program | |
|---|---|---|---|---|---|---|---|
| | | | | | | N | % |
| 6334 - BS-Info Tech - BSIT | 2017 | Female | 45 | 4 | 41* | 28 | 71.6% |
| | | Male | 139 | 20 | 119* | 88 | 68.3% |
| | | Unknown | 2 | 0 | 2 | 0 | 0% |
| | 2018 | Female | 45 | 5 | 40 | 25 | 62.5% |
| | | Male | 152 | 22 | 130 | 101 | 77.7% |
| | | PrefNoAns | 1 | 0 | 1 | 0 | 0% |

*two students retained by DSC

## Placement Rates
### Workforce High Demand Occupations: 12.96%
### DSC Workforce High Skill/High Wage Earnings: 59.10%

| Program Title | Major | 2013/14 | | 2014/15 | | 2015/16 | | 2016/17 | | 2017/18 | | Average Annual Salary |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | |
| BS Information Technology | 6334 | 43% | 69% | N/A | 75% | 79% | 77% | 79% | 79% | 81% | 81% | $43,152 |
| Cybersecurity and Cyberforensics | 3002 | | | 75% | 75% | ****% | 79% | 100% | 100% | 50% | 57% | $**,*** |
| Web System Software Development | 3003 | | | | | | | 100% | 100% | 0% | 0% | $**,*** |

*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

# Course Success Rates

| Major | Course | 2016-2017 | | 2017-2018 | | 2018-2019 | | 2019-2020 | | |
|-------|--------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|---|
| | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | |
| 6334- BS Information Technology | CDA4101 | 50 | 90% | 57 | 88% | 52 | 88% | 56 | 93% | ↑ |
| | CEN3722 | 27 | 70% | 63 | 83% | 71 | 86% | 73 | 71% | |
| | CEN4010 | 23 | 96% | 27 | 89% | 41 | 100% | 43 | 95% | |
| | CEN4801 | 16 | 81% | 22 | 82% | 20 | 100% | 44 | 91% | |
| | CET3116 | 95 | 51% | 118 | 57% | 81 | 63% | 25 | 68% | ↑ |
| | CET4860 | 48 | 79% | 41 | 88% | 57 | 75% | 53 | 70% | |
| | CET4861 | 12 | 100% | 36 | 83% | 31 | 87% | 30 | 90% | ↑ |
| | CET4862 | 20 | 85% | 24 | 71% | 40 | 85% | 30 | 77% | |
| | CET4884 | 21 | 95% | 33 | 88% | 31 | 84% | 32 | 94% | ↑ |
| | CIS4250 | 29 | 97% | 44 | 91% | 50 | 94% | 53 | 92% | |
| | CIS4360 | 84 | 65% | 75 | 67% | 76 | 57% | 46 | 65% | ↑ |
| | CIS4510 | | | | | 12 | 83% | 13 | 92% | |
| | CNT3104 | 41 | 93% | 48 | 92% | 61 | 98% | 49 | 92% | |
| | CNT4007 | 39 | 90% | 44 | 95% | 53 | 92% | 40 | 95% | ↑ |
| | CNT4703 | 41 | 93% | 26 | 85% | 37 | 95% | 52 | 94% | |
| | COP3530 | 86 | 69% | 60 | 63% | 58 | 76% | 62 | 69% | |
| | COP4610 | 45 | 98% | 59 | 98% | 60 | 97% | 40 | 85% | |
| | COP4708 | 44 | 82% | 46 | 78% | 72 | 85% | 56 | 80% | |
| | COP4709 | 10 | 80% | 6 | 83% | 15 | 80% | 12 | 92% | ↑ |
| | COP4813 | 28 | 79% | 23 | 87% | 35 | 86% | 42 | 93% | |
| | COP4834 | 10 | 90% | 4 | 100% | 7 | 100% | 8 | 100% | ↑ |
| | COT3100 | 97 | 80% | 74 | 80% | 47 | 81% | 80 | 84% | |
| | CTS3348 | 46 | 76% | 59 | 68% | 44 | 68% | 37 | 76% | |
| | **Major** | **912** | **79%** | **989** | **79%** | **1051** | **83%** | **976** | **84%** | |

| Program, Course, Race/Ethnicity | 2018-2019 Enrolled | Success Rate | 2019-2020 Enrolled | Success Rate |
|---|---|---|---|---|
| **6334 - BSIT** | 1051 | 83% | 976 | 84% |
| CDA4101 | 52 | 88% | 56 | 93% |
|   Asian | 2 | 100% | | |
|   Black | 1 | 100% | 3 | 100% |
|   Hispanic | 12 | 83% | 5 | 60% |
|   Two or More Races | 3 | 100% | 3 | 100% |
|   Unknown | | | 2 | 100% |
|   White | 34 | 88% | 43 | 95% |
| CEN3722 | 71 | 86% | 73 | 71% |
|   Asian | 1 | 0% | 3 | 100% |
|   Black | 7 | 57% | 9 | 67% |
|   Hispanic | 8 | 88% | 11 | 82% |
|   Two or More Races | 2 | 50% | 2 | 100% |
|   Unknown | | | 1 | 100% |
|   White | 51 | 92% | 47 | 66% |
| CEN4010 | 41 | 100% | 43 | 95% |
|   Asian | | | 1 | 100% |
|   Black | 3 | 100% | 2 | 100% |
|   Hispanic | 4 | 100% | 4 | 100% |
|   Two or More Races | 2 | 100% | 1 | 100% |
|   Unknown | 1 | 100% | 2 | 100% |
|   White | 31 | 100% | 33 | 94% |
| CEN4801 | 20 | 100% | 44 | 91% |
|   Asian | 1 | 100% | | |
|   Black | | | 3 | 67% |
|   Hispanic | 1 | 100% | 8 | 88% |
|   Two or More Races | | | 2 | 100% |
|   Unknown | | | 1 | 100% |
|   White | 18 | 100% | 30 | 93% |

| Program, Course, Race/Ethnicity | 2018-2019 Enrolled | Success Rate | 2019-2020 Enrolled | Success Rate |
|---|---|---|---|---|
| CET3116 | 81 | 63% | 25 | 68% |
|   Am. Ind | 1 | 100% | 1 | 100% |
|   Asian | 4 | 50% | 4 | 75% |
|   Black | 10 | 20% | 2 | 50% |
|   Hispanic | 10 | 90% | 1 | 100% |
|   Two or More Races | 9 | 67% | 1 | 100% |
|   Unknown | 2 | 100% | | |
|   White | 45 | 64% | 16 | 63% |
| CET4860 | 57 | 75% | 53 | 70% |
|   Asian | 1 | 0% | 3 | 33% |
|   Black | 6 | 50% | | |
|   Hispanic | 8 | 63% | 8 | 63% |
|   Two or More Races | | | 1 | 100% |
|   Unknown | 3 | 67% | 2 | 100% |
|   White | 39 | 85% | 39 | 72% |
| CET4861 | 31 | 87% | 30 | 90% |
|   Black | | | 3 | 100% |
|   Hispanic | 4 | 75% | 4 | 100% |
|   Unknown | | | 1 | 100% |
|   White | 27 | 89% | 22 | 86% |
| CET4862 | 40 | 85% | 30 | 77% |
|   Black | 3 | 100% | | |
|   Hispanic | 4 | 100% | 5 | 80% |
|   Two or More Races | | | 2 | 100% |
|   White | 33 | 82% | 23 | 74% |
| CET4884 | 31 | 84% | 32 | 94% |
|   Am. Ind | 1 | 100% | | |
|   Asian | | | 3 | 100% |
|   Black | 4 | 50% | 1 | 100% |
|   Hispanic | 3 | 67% | 4 | 75% |
|   Two or More Races | 1 | 100% | 1 | 100% |
|   Unknown | | | 1 | 100% |
|   White | 22 | 91% | 22 | 95% |

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

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **CIS4250** | 50 | 94% | 53 | 92% |
| Asian | 1 | 0% | 6 | 100% |
| Black | 6 | 67% | 3 | 100% |
| Hispanic | 6 | 100% | 11 | 82% |
| Two or More Races | 1 | 100% | 2 | 100% |
| Unknown | | | 2 | 100% |
| White | 36 | 100% | 29 | 93% |
| **CIS4360** | 76 | 57% | 46 | 65% |
| Asian | 3 | 33% | 3 | 33% |
| Black | 9 | 33% | 2 | 50% |
| Hispanic | 16 | 38% | 8 | 63% |
| Two or More Races | 4 | 75% | 3 | 67% |
| Unknown | 3 | 100% | 1 | 100% |
| White | 41 | 66% | 29 | 69% |
| **CIS4510** | 12 | 83% | 13 | 92% |
| Asian | 1 | 100% | 2 | 100% |
| Black | 2 | 50% | | |
| Hispanic | 1 | 100% | | |
| Two or More Races | 1 | 100% | 1 | 100% |
| White | 7 | 86% | 10 | 90% |
| **CNT3104** | 61 | 98% | 49 | 92% |
| Asian | | | 3 | 100% |
| Black | 6 | 100% | 2 | 100% |
| Hispanic | 9 | 100% | 8 | 100% |
| Two or More Races | 4 | 100% | 1 | 100% |
| Unknown | | | 2 | 100% |
| White | 42 | 98% | 33 | 88% |
| **CNT4007** | 53 | 92% | 40 | 95% |
| Black | 5 | 80% | 1 | 100% |
| Hispanic | 7 | 100% | 2 | 100% |
| Two or More Races | 3 | 100% | 6 | 83% |
| Unknown | | | 1 | 100% |
| White | 38 | 92% | 30 | 97% |
| **CNT4703** | 37 | 95% | 52 | 94% |
| Asian | 2 | 100% | 1 | 100% |
| Black | 4 | 100% | 3 | 100% |
| Hispanic | 2 | 100% | 7 | 100% |
| Two or More Races | 2 | 50% | 3 | 100% |
| White | 26 | 96% | 38 | 92% |

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **COP3530** | 58 | 76% | 62 | 69% |
| American Indian | | | 1 | 0% |
| Asian | 1 | 100% | 4 | 75% |
| Black | 5 | 40% | 5 | 40% |
| Hispanic | 13 | 77% | 10 | 70% |
| Two or More Races | 4 | 50% | 1 | 100% |
| Unknown | 2 | 100% | 1 | 100% |
| White | 33 | 82% | 40 | 73% |
| **COP4610** | 60 | 97% | 40 | 85% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 4 | 100% | 3 | 100% |
| Hispanic | 11 | 100% | 7 | 86% |
| Two or More Races | 8 | 100% | | |
| Unknown | 2 | 100% | | |
| White | 34 | 94% | | |
| **COP4708** | 72 | 85% | 29 | 83% |
| American Indian | | | 56 | 80% |
| Asian | | | 1 | 100% |
| Black | 5 | 40% | 5 | 80% |
| Hispanic | 12 | 92% | 4 | 50% |
| Two or More Races | 2 | 100% | 8 | 63% |
| Unknown | 3 | 100% | 1 | 100% |
| White | 50 | 86% | 37 | 86% |
| **COP4709** | 15 | 80% | 12 | 92% |
| Asian | 1 | 100% | | |
| Black | 2 | 50% | | |
| Hispanic | 1 | 100% | 1 | 100% |
| Two or More Races | 1 | 100% | 1 | 100% |
| White | 10 | 80% | 10 | 90% |
| **COP4813** | 35 | 86% | 42 | 93% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 2 | 0% | 4 | 50% |
| Hispanic | 1 | 0% | 9 | 100% |
| Two or More Races | 1 | 100% | 1 | 100% |
| Unknown | 1 | 100% | 1 | 100% |
| White | 29 | 93% | 26 | 96% |

# Course Success Rates by Race/Ethnicity (3 of 3)

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **COP4834** | 7 | 100% | 8 | 100% |
| Asian | 1 | 100% | | |
| Hispanic | | | 1 | 100% |
| Two or More Races | 1 | 100% | | |
| White | 5 | 100% | 7 | 100% |
| **COT3100** | 47 | 81% | 80 | 84% |
| American Indian | | | 1 | 100% |
| Asian | 1 | 100% | 5 | 100% |
| Black | 4 | 50% | 1 | 100% |
| Hispanic | 9 | 78% | 10 | 90% |
| Two or More Races | 2 | 100% | 3 | 100% |
| Unknown | 1 | 100% | | |
| White | 30 | 83% | 60 | 80% |
| **CTS3348** | 44 | 68% | 37 | 76% |
| Asian | | | 4 | 75% |
| Black | 6 | 33% | 2 | 0% |
| Hispanic | 4 | 75% | 3 | 100% |
| Two or More Races | 1 | 100% | 3 | 67% |
| Unknown | 2 | 100% | 1 | 100% |
| White | 31 | 71% | 24 | 79% |
| **Grand Total** | 1051 | 83% | 976 | 84% |

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 Race/Ethnicity

| Program, Course, Race/Ethnicity | 2018-2019 | | 2019-2020 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| Am. Ind | 3 | 100% | 4 | 75% |
| Asian | 22 | 68% | 50 | 84% |
| Black | 94 | 56% | 54 | 72% |
| Hispanic | 146 | 82% | 139 | 83% |
| Two or More Races | 55 | 84% | 33 | 94% |
| Unknown | 19 | 100% | 19 | 100% |
| White | 712 | 87% | 677 | 84% |
| Grand Total | 1051 | 83% | 976 | 84% |

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

# Special Data Request –Course Retakes

| Course | Count of Course Retakes 2018-2019 |
|--------|:---:|
| ACG3024 | |
| CDA4101 | 1 |
| CEN3722 | 2 |
| CEN4010 | |
| CEN4801 | 1 |
| CET3116 | 8 |
| CET4860 | 4 |
| CET4861 | |
| CET4862 | 1 |
| CET4884 | |
| CIS4250 | |
| CIS4360 | 9 |
| CIS4510 | |
| CNT3104 | 1 |
| CNT4007 | 1 |
| CNT4703 | |
| COP3530 | 8 |
| COP4610 | 1 |
| COP4708 | 5 |
| COP4709 | |
| COP4813 | 1 |
| COP4834 | |
| COT3100 | |
| CTS3348 | 7 |
| EET3085 | |
| EET3085L | |
| EET3086 | 3 |
| ETI3116 | |
| GEB3213 | |
| MAN4583 | |
| **Grand Total** | **53** |

| Course | Count of Course Retakes 2019-2020 |
|--------|:---:|
| CIS4360 | 12 |
| COP3530 | 7 |
| CEN3722 | 6 |
| CET3116 | 5 |
| COP4708 | 5 |
| CDA4101 | 4 |
| COT3100 | 4 |
| CNT3104 | 3 |
| COP4813 | 2 |
| CET4860 | 2 |
| CET4861 | 2 |
| CIS4250 | 1 |
| CEN4010 | 1 |
| CNT4703 | 1 |
| EET3086 | 1 |
| CNT4007 | 1 |
| EET3085 | |
| ETI3116 | |
| CIS4510 | |
| CET4884 | |
| CTS3348 | |
| COP4709 | |
| EET3085L | |
| CEN4801 | |
| EGN3214 | |
| COP4834 | |
| COP4610 | |
| CET4862 | |
| **Grand Total** | **57** |

Source: IR Program Assessment Data

# CIVITAS – Illume Students
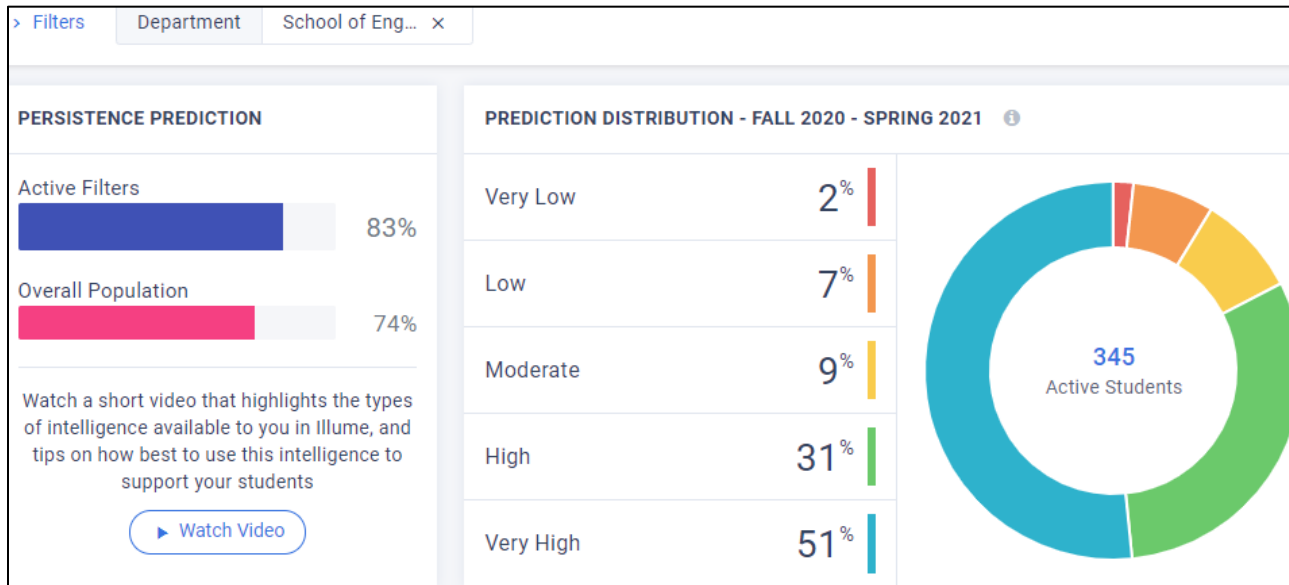


*Captured on 1/13/2021*
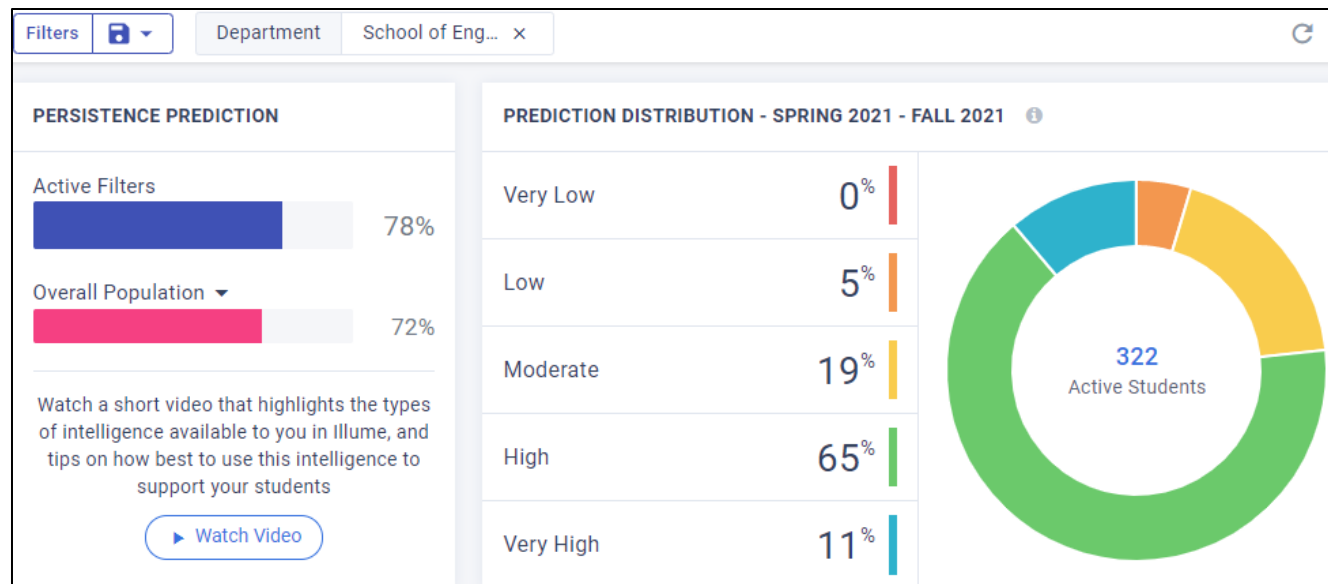


*Captured on 3/1/2021*

# CIVITAS – Completion Insights

# CIVITAS – Illume Courses

# DAYTONA STATE COLLEGE
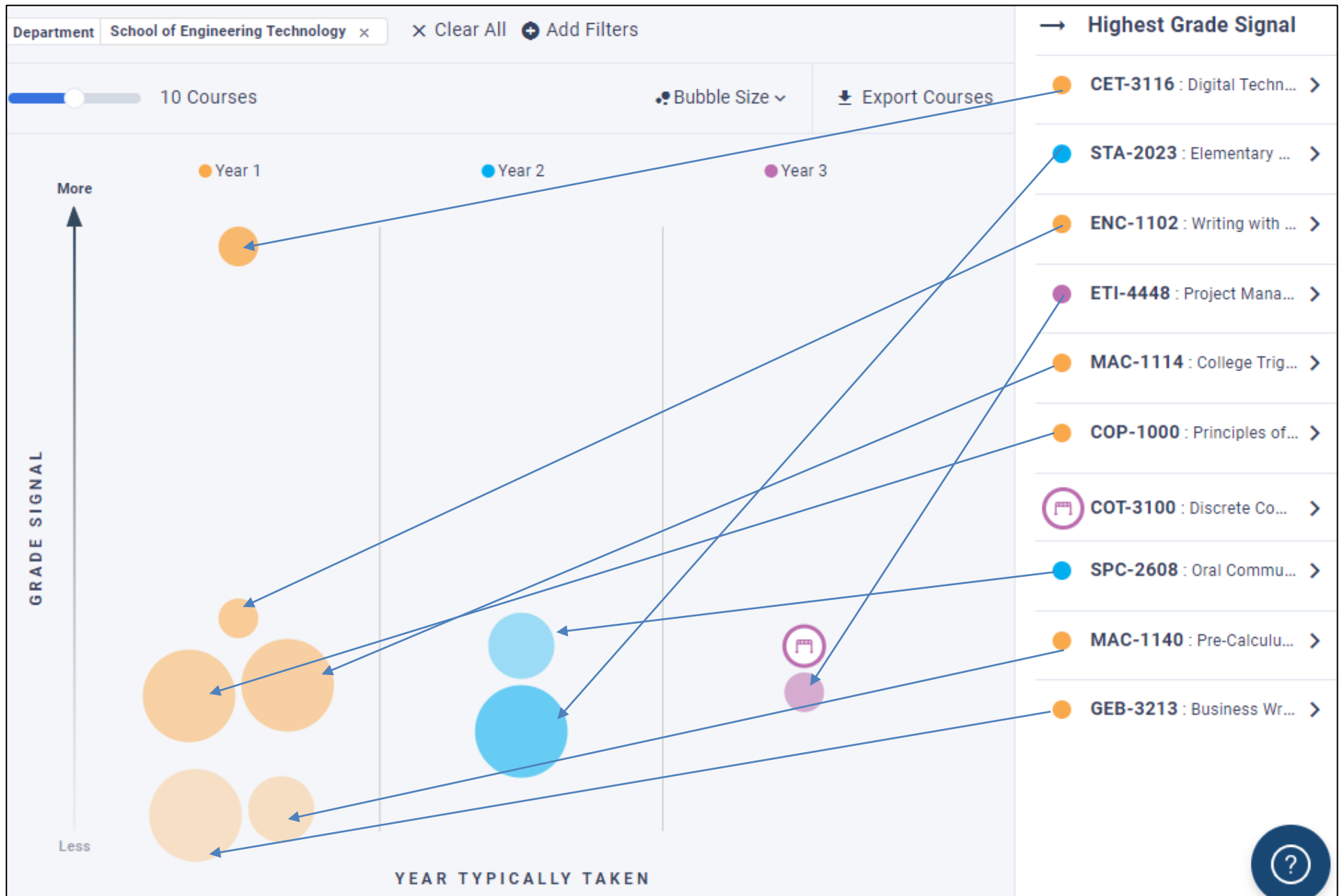
# 2020-2021
# Academic Affairs
# Assessment Day – Program Guides

*A Review of Program Guide and Course Catalog Information*

# Program Guides - Overview

- Given Assessment Day results, are there any changes <u>needed to</u> or <u>desired for</u> the Program Guide?

- Please Review:

    – Program Information

    – General Education Course Selections (if applicable)

    – Program Course Catalog Information

    – Program of Study

# Program Guides – Information Review

- Mission statement

  – Does it accurately state the purpose and goals of the program?

- Description

  – Does it clearly portray the nature of the program and any unique characteristics (i.e. embedded certificates, industry certifications, program accreditations, etc.)?

# **Program Guides – General Ed. Review**

- General Education Courses *(if applicable)*

  – Are the selection of courses aligned with the academic knowledge students need to be successful in the related field(s)/occupations?

    - Must be a minimum of 15 credit hours for A.S. programs *(F.A.C. 6A-10.024)*
    - Must include ENC1101 and a Math Core course

  – Do the selection of courses allow for seamless transition to the Baccalaureate level (if applicable)?

# Program Guides – Course Reqs. Review

- Program Specific Course Requirements

  - Are the courses relevant to the academic and technical skills required in the related field(s)/occupation(s)?

  - Are there any required courses offered by another department?  If so, consult with that department on upcoming changes (if any).

  - Are there any courses that have not been offered in over 5 years?

# Program Guides – Course Info. Review

- Program Specific Course Catalog Information

  – Is the course description accurate?

  – Are the course prefix, number and/or title relevant?

  – Are the term offerings up-to-date?

  – Are the prerequisite and corequisite course assignments appropriate to what students need to know to be successful in the requisite *(required)* course?

# Program Guide – Program of Study Review

- Program of Study

  - Is the sequence of courses structured from foundational to advanced content, as appropriate?

  - Does the sequence align with course, term offerings?

  - Does the sequence align with course, prerequisite/co-requisite assignments?

  - Are there any special notes/information missing, incorrect or desired?

# ASSESSMENT DAY

College of Business, Engineering, and Technology
School of Engineering and Information Technology
BSIT
January 27, 2020

**Strengths**

**Challenges**

**Recommendations**

# Academic Assessment

| | LEVEL | FOCUS | CONDUCTED BY | FREQUENCY |
|---|---|---|---|---|
| **Academic Success Committee** | Program | • Quality of assessment practices | Committee of peers | Years 1 & 2 |
| **Instructional Program Review** | Program / Cluster | • Enrollment, retention, completion<br>• Industry certifications and job placement<br>• Program budget and staffing<br>• Advisory committees<br>• Curriculum changes | Committee of peers | Year 3 |
| **Assessment Day** | Course/ Program | • Enrollment by demographics<br>• Graduation and retention<br>• Average class size<br>• Course success rate<br>• Placement rate<br>• 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:  (03/05/2019)**

- COP1000 career pathway conversion to credit – be part of the conversation, currently they are developing an exam that students will take here to award the conversion of credit from high school to college;

- Bring all courses to QM standards;

- Option for the statistical course (2032?) higher than 2023. Dr. Locklear sent a list of courses other institutions are using;

- Cross training advisors with new advising guides;

- Work with Patrick to revise Cybersecurity program outcomes;

For Institutional Research: Calculate the number of course retakes

# 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.

# 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.
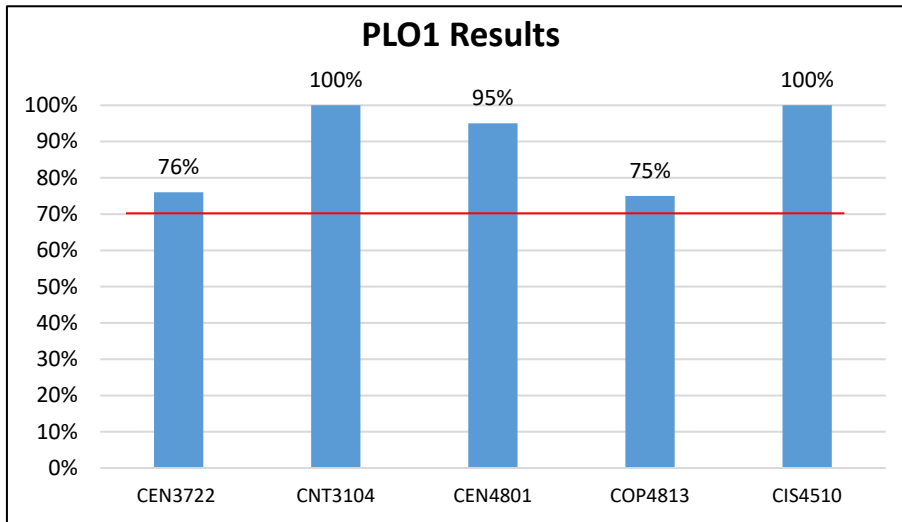16. Identify evidence of a server intrusion.

# Program Learning Outcomes
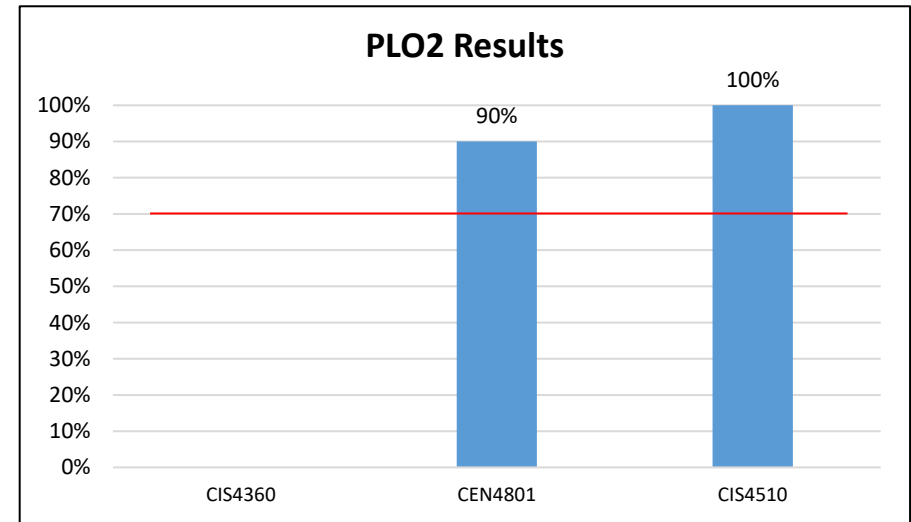
**Web Systems Software Development 3003**

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.
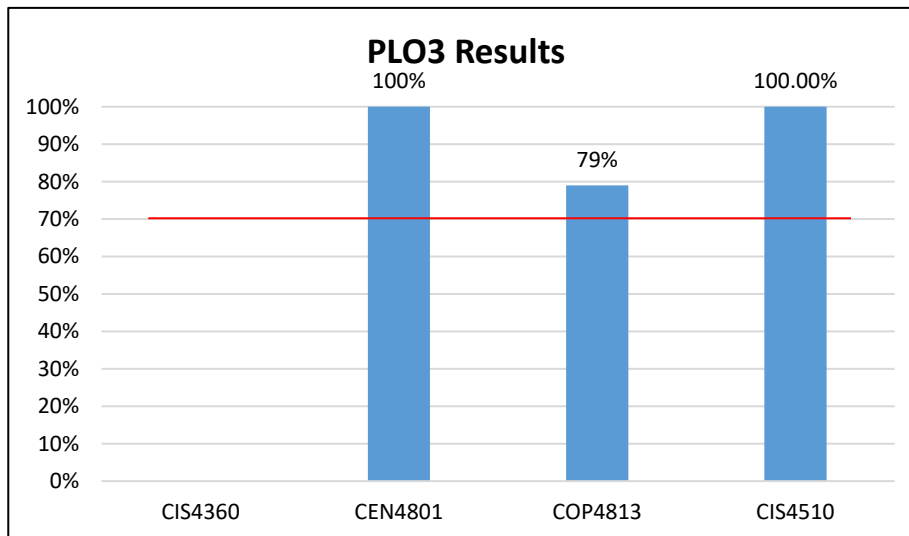
# Assessment Results 2018-2019

## PLO1 Results



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.*
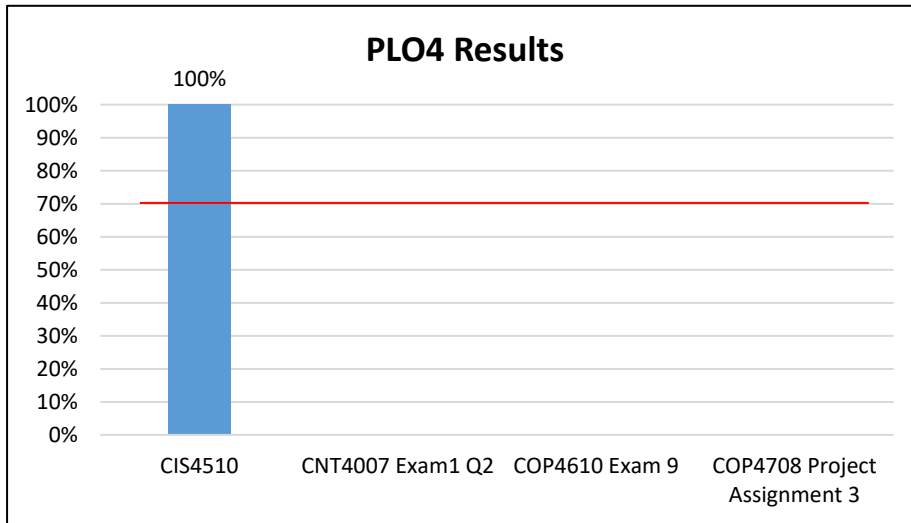
## PLO2 Results



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.*

## PLO3 Results



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

# Assessment Results 2018-2019

### PLO4 Results



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.*

### PLO5 Results



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 Results



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 2017-2018 and 2018-2019:
## Programs and Institutional Learning Outcomes

| Program | Critical/ Creative Thinking | | Communication | | Cultural Literacy | | Information and Technical Literacy | |
|---|---|---|---|---|---|---|---|---|
| | 17/18 | 17/18 | 17/18 | 17/18 | 17/18 | 17/18 | 17/18 | 17/18 |
| Bachelor of Science in Information Technology (BSIT) - 6334 | 80%-94.1% | 75%-100% | 82%-95.8% | 75%-100% | 80%-100% | 90%-100% | 70%-100% | 79%-100% |
| 3002 - Cybersecurity and Cyberforensics | 80%-94.1% | 75%-100% | 82%-95.8% | 75%-100% | 80%-100% | 90%-100% | 70%-100% | 79%-100% |
| 3003 – Web Systems Software Development | 80%-94.1% | 75%-100% | 82%-95.8% | 75%-100% | 80%-100% | 90%-100% | 70%-100% | 79%-100% |

# Headcount by Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 |
|---|---|---|---|
| 3002 - CYBERSEC./CYBERFORENSIC | 16 | 12 | 4 |
| 3003 -  WEB SYSTEMS SOFTWARE DEVELOPMENT | 2 | 1 | 1 |
| 6334 - BS-INFO TECH - BSIT | 237 | 271 | 244 |
| Total | 255 | 285 | 250 |

Source: IR Program Assessment Data

*Students are duplicated across programs, unduplicated in the total.*

# Graduates in Major

| Major | 2016-2017 | 2017-2018 | 2018-2019 |
|---|---|---|---|
| 3002 - Cybersec./Cyberforensic | 9 | 7 | 1 |
| 3003 – Web Systems Software Development | 4 | 1 | 1 |
| 6334 - BS-Info Tech - BSIT | 29 | 25 | 29 |
| Department Total | 42 | 33 | 31 |

*Blank cells or missing years indicate no graduates.*
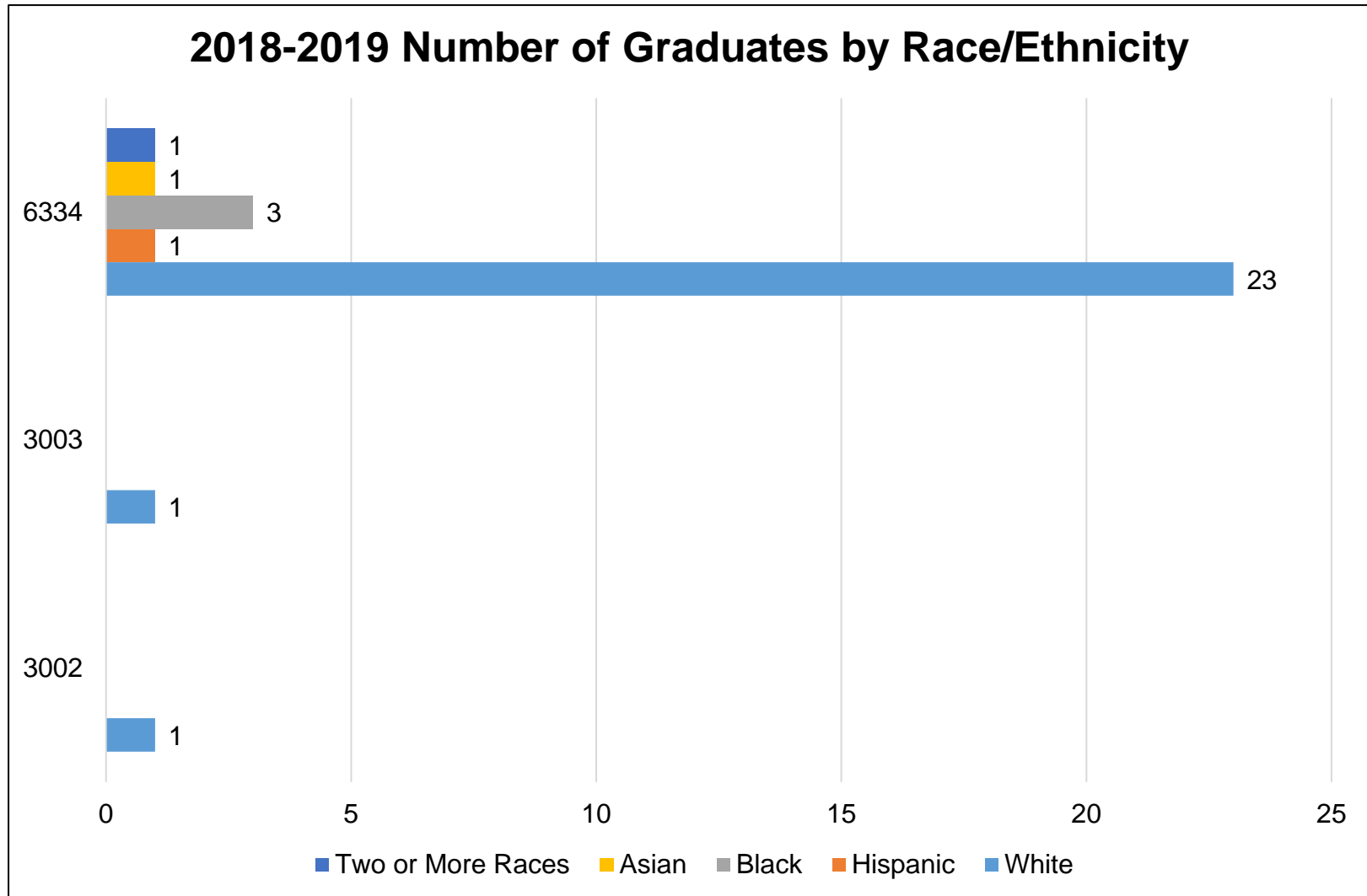
Source: IR Program Assessment Data

**2018-2019 Number of Graduates by Race/Ethnicity**

Source: IR Program Assessment Data

# Graduation Rates

| Major | Fall Cohort Year | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|
| 3002 - Cybersecurity/ Cyberfor. Cert. | 2016 – 200% in progress | 7 | 1 | 14.3% | 3 | 42.9% |
| | 2017 – In progress | 4 | 1 | 25% | 1 | 25% |
| 3003 - Web Systems Software Dev | 2016 – 200% in progress | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS Info Tech - BSIT | 2013 | 7 | 3 | 42.9% | 5 | 71.4% |
| | 2014 | 102 | 34 | 33.3% | 42 | 41.2% |
| | 2015 –200% In progress | 57 | 10 | 17.5% | 12 | 21.1% |
| | 2016– In progress | 62 | 12 | 19.4% | 12 | 19.4% |

**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.

# Graduation Rates by Race/Ethnicity (1 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 300200 - Cybersecurity/ Cyberfor. Cert. | 2016 | Asian | 1 | 0 | 0% | 0 | 0% |
| | | Black | 1 | 0 | 0% | 0 | 0% |
| | | White | 5 | 1 | 20% | 3 | 60% |
| | 2017 | Hispanic | 1 | 0 | 0% | 0 | 0% |
| | | White | 3 | 1 | 33.3% | 1 | 33.3% |
| 300300 - Web Systems Software Dev | 2016 | White | 1 | 0 | 0% | 0 | 0% |

**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.

# Graduation Rates by Race/Ethnicity (2 of 2)

| Major | Fall Cohort Year | Race/Ethnicity | # in Cohort | 150% Graduates | 150% Graduation Rate | 200% Graduates | 200% Graduation Rate |
|---|---|---|---|---|---|---|---|
| 6334 - BS Info Tech - BSIT | 2014 | 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 | 65 | 21 | 32.3% | 26 | 40% |
| | 2015 – 200% 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% |
| | | Unknown | 2 | 0 | 0% | | 0% |
| | | White | 42 | 7 | 16.7% | 9 | 21.4% |
| | 2016 – in progress | Asian | 4 | 1 | 25% | 1 | 25% |
| | | Black | 4 | 0 | 0% | 0 | 0% |
| | | Hispanic | 13 | 0 | 0% | 0 | 0% |
| | | Two or More Races | 4 | 0 | 0% | 0 | 0% |
| | | White | 37 | 11 | 29.7% | 11 | 29.7% |

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

# Graduation Rates By Gender

| Major | Fall Term | Race/Ethnicity | # Students | Graduation | | | |
|---|---|---|---|---|---|---|---|
| | | | | Graduated within 150% Time | Graduation Rate | Graduated within 200% Time | Graduation Rate |
| 3002 - Cybersec./Cyberforensic | 2016 | Female | 2 | 0 | 0% | 0 | 0% |
| | | Male | 4 | 1 | 25% | 3 | 75% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2017 | Female | 1 | 0 | 0% | 0 | 0% |
| | | Male | 3 | 1 | 33.3% | 1 | 33.3% |
| 3003 – Web Systems Software Development | 2016 | Female | 1 | 0 | 0% | 0 | 0% |
| 6334 - BS-Info Tech - BSIT | 2014 | Female | 15 | 7 | 46.7% | 8 | 53.3% |
| | | Male | 84 | 27 | 32.1% | 34 | 40.5% |
| | | Unknown | 3 | 0 | 0% | 0 | 0% |
| | 2015 | Female | 13 | 0 | 0% | 0 | 0% |
| | | Male | 43 | 10 | 23.3% | 12 | 27.9% |
| | | Unknown | 1 | 0 | 0% | 0 | 0% |
| | 2016 | Female | 17 | 2 | 11.8% | 2 | 11.8% |
| | | Male | 45 | 10 | 22.2% | 10 | 22.2% |

# 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% |
| | FA18 to SP19 | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| 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% |
| | FA18 to SP19 | 0 | | | | | | | |

Source: IR Program Assessment Data

# 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% |
| | | 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% | 100% |
| | | Hispanic | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| | | White | 6 | 0 | 6 | 1 | 17% | 4 | 67% | 83% |
| | FA18 to SP19 | White | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |
| 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% |

Source: IR Program Assessment Data

# Persistence Rates by Gender

| 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   FA18 to SP19 | Male | 1 | 0 | 1 | 0 | 0% | 0 | 0% | 0% |

# Retention Rates

| Program and Cohort Year | | Registered | Exclusions | Adjusted Cohort | Retained by DSC | | Retained by Program | | DSC Total Retained |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | % | N | % | |
| 6334 - BS Info Tech - BSIT | 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% |
| | 2017 | 186 | 24 | 162 | 4 | 2.5% | 116 | 71.6% | 74.1% |

**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 2017 to Fall 2018 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 | 0 | 0% |
| | Asian | 4 | 1 | 3* | 1 | 33.3% |
| | Black | 17 | 3 | 14 | 12 | 85.7% |
| | Hawaii/Pac | 1 | 0 | 1 | 0 | 0% |
| | Hispanic | 25 | 2 | 23* | 16 | 69.6% |
| | Two or More Races | 6 | 1 | 5 | 5 | 100% |
| | Unknown | 1 | 0 | 1 | 0 | 0% |
| | White | 131 | 17 | 114** | 82 | 71.9% |

*one student retained by DSC; **two students retained by DSC*

**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

# Fall 2017 to Fall 2018 Retention Rates by Gender

| Major | Fall Term | Registered | Exclusions | Adjusted Cohort | Retained by Program | |
|---|---|---|---|---|---|---|
| | | | | | N | % |
| 6334 - BS-Info Tech - BSIT | Female | 45 | 4 | 41* | 28 | 71.6% |
| | Male | 139 | 20 | 119* | 88 | 68.3% |
| | Unknown | 2 | 0 | 2 | 0 | 0% |

*two students retained by DSC

| Placement Rates (College average: 95.5%) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Program Title** | **Major** | **2013/14** | | **2014/15** | | **2015/16** | | **2016/17** | | **Average Annual Salary** |
| | | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | DSC% | FCS% | |
| **BS Information Technology** | 6334 | 43% | 69% | N/A | 75% | 79% | 77% | 79% | 79% | $57,344 |
| **Cybersecurity and Cyberforensics** | 3002 | | | 75% | 75% | ***% | 79% | 100% | 100% | $**,*** |

*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

# Course Success Rates

| Major | Course | 2015-2016 | | 2016-2017 | | 2017-2018 | | 2018-2019 | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | |
| 6334- BS Information Technology | CDA4101 | 52 | 81% | 50 | 90% | 57 | 88% | 52 | 88% | |
| | CEN3722 | | | 27 | 70% | 63 | 83% | 71 | 86% | ↑ |
| | CEN4010 | 25 | 92% | 23 | 96% | 27 | 89% | 41 | 100% | |
| | CEN4801 | 11 | 82% | 16 | 81% | 22 | 82% | 20 | 100% | |
| | CET3010 | 20 | 100% | | | | | | | ↑ |
| | CET3116 | 80 | 54% | 95 | 51% | 118 | 57% | 81 | 63% | ↑ |
| | CET3679 | 24 | 100% | | | | | | | |
| | CET4748 | 24 | 92% | | | | | | | |
| | CET4860 | 37 | 70% | 48 | 79% | 41 | 88% | 57 | 75% | |
| | CET4861 | 16 | 88% | 12 | 100% | 36 | 83% | 31 | 87% | ↑ |
| | CET4862 | 21 | 100% | 20 | 85% | 24 | 71% | 40 | 85% | |
| | CET4884 | 25 | 100% | 21 | 95% | 33 | 88% | 31 | 84% | ↑ |
| | CIS4250 | 11 | 91% | 29 | 97% | 44 | 91% | 50 | 94% | ↑ |
| | CIS4360 | 72 | 72% | 84 | 65% | 75 | 67% | 76 | 57% | |
| | CIS4510 | | | | | | | 12 | 83% | |
| | CNT3104 | 34 | 94% | 41 | 93% | 48 | 92% | 61 | 98% | ↑ |
| | CNT4007 | 46 | 67% | 39 | 90% | 44 | 95% | 53 | 92% | |
| | CNT4703 | 6 | 83% | 41 | 93% | 26 | 85% | 37 | 95% | ↑ |
| | COP3530 | 88 | 47% | 86 | 69% | 60 | 63% | 58 | 76% | |
| | COP4610 | 71 | 96% | 45 | 98% | 59 | 98% | 60 | 97% | |
| | COP4708 | 67 | 91% | 44 | 82% | 46 | 78% | 72 | 85% | ↑ |
| | COP4709 | 11 | 55% | 10 | 80% | 6 | 83% | 15 | 80% | |
| | COP4813 | 57 | 75% | 28 | 79% | 23 | 87% | 35 | 86% | |
| | COP4834 | 12 | 58% | 10 | 90% | 4 | 100% | 7 | 100% | |
| | COT3100 | 94 | 90% | 97 | 80% | 74 | 80% | 47 | 81% | ↑ |
| | CTS3348 | 85 | 82% | 46 | 76% | 59 | 68% | 44 | 68% | |
| | **Major** | **989** | **79%** | **912** | **79%** | **989** | **79%** | **1051** | **83%** | ↑ |

Source: IR Program Assessment Data

# Course Success Rates by Race/Ethnicity (1 of 3)

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| 6334 - BSIT | 985 | 79% | 1051 | 83% |
| CDA4101 | 57 | 88% | 52 | 88% |
| Asian | 1 | 100% | 2 | 100% |
| Black | 6 | 83% | 1 | 100% |
| Hispanic | 6 | 100% | 12 | 83% |
| Two or More Races | 1 | 0% | 3 | 100% |
| White | 41 | 90% | 34 | 88% |
| CEN3722 | 63 | 83% | 71 | 86% |
| Asian | 2 | 100% | 1 | 0% |
| Black | 2 | 50% | 7 | 57% |
| Hispanic | 11 | 82% | 8 | 88% |
| Two or More Races | 2 | 50% | 2 | 50% |
| White | 44 | 84% | 51 | 92% |
| CEN4010 | 27 | 89% | 41 | 100% |
| Black | 1 | 100% | 3 | 100% |
| Hispanic | 2 | 100% | 4 | 100% |
| Two or More Races | 1 | 100% | 2 | 100% |
| Unknown | | | 1 | 100% |
| White | 21 | 86% | 31 | 100% |
| CEN4801 | 22 | 82% | 20 | 100% |
| Asian | 1 | 100% | 1 | 100% |
| Hispanic | | | 1 | 100% |
| White | 18 | 89% | 18 | 100% |

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| CET3116 | 118 | 57% | 81 | 63% |
| Am. Ind | 1 | 100% | 1 | 100% |
| Asian | 5 | 40% | 4 | 50% |
| Black | 13 | 46% | 10 | 20% |
| Hispanic | 23 | 61% | 10 | 90% |
| Two or More Races | 3 | 100% | 9 | 67% |
| Unknown | | | 2 | 100% |
| White | 73 | 56% | 45 | 64% |
| CET4860 | 41 | 88% | 57 | 75% |
| Asian | 3 | 67% | 1 | 0% |
| Black | 4 | 50% | 6 | 50% |
| Hispanic | 3 | 100% | 8 | 63% |
| Unknown | | | 3 | 67% |
| White | 30 | 93% | 39 | 85% |
| CET4861 | 35 | 83% | 31 | 87% |
| Hispanic | 2 | 50% | 4 | 75% |
| White | 26 | 96% | 27 | 89% |
| CET4862 | 24 | 71% | 40 | 85% |
| Black | | | 3 | 100% |
| Hispanic | 2 | 50% | 4 | 100% |
| White | 17 | 82% | 33 | 82% |
| CET4884 | 33 | 88% | 31 | 84% |
| Am. Ind | | | 1 | 100% |
| Black | 2 | 100% | 4 | 50% |
| Hispanic | 3 | 100% | 3 | 67% |
| Two or More Races | 1 | 100% | 1 | 100% |
| White | 23 | 87% | 22 | 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

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **CIS4250** | 44 | 91% | 50 | 94% |
| Asian | 1 | 100% | 1 | 0% |
| Black | 2 | 100% | 6 | 67% |
| Hispanic | 3 | 100% | 6 | 100% |
| Two or More Races | 1 | 100% | 1 | 100% |
| White | 37 | 89% | 36 | 100% |
| **CIS4360** | 75 | 67% | 76 | 57% |
| Asian | 1 | 0% | 3 | 33% |
| Black | 6 | 33% | 9 | 33% |
| Hispanic | 9 | 67% | 16 | 38% |
| Two or More Races | 2 | 0% | 4 | 75% |
| Unknown | | | 3 | 100% |
| White | 57 | 74% | 41 | 66% |
| **CIS4510** | | | 12 | 83% |
| Asian | | | 1 | 100% |
| Black | | | 2 | 50% |
| Hispanic | | | 1 | 100% |
| Two or More Races | | | 1 | 100% |
| White | | | 7 | 86% |
| **CNT3104** | 48 | 92% | 61 | 98% |
| Black | 6 | 83% | 6 | 100% |
| Hispanic | 4 | 100% | 9 | 100% |
| Two or More Races | 2 | 100% | 4 | 100% |
| White | 33 | 91% | 42 | 98% |
| **CNT4007** | 44 | 95% | 53 | 92% |
| Black | 6 | 100% | 5 | 80% |
| Hispanic | 3 | 100% | 7 | 100% |
| Two or More Races | 1 | 100% | 3 | 100% |
| White | 31 | 94% | 38 | 92% |
| **CNT4703** | 26 | 85% | 37 | 95% |
| Am. Ind. | | | 1 | 100% |
| Asian | | | 2 | 100% |
| Black | 3 | 100% | 4 | 100% |
| Hispanic | 2 | 100% | 2 | 100% |
| Two or More Races | 1 | 100% | 2 | 50% |
| White | 19 | 79% | 26 | 96% |

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **COP3530** | 60 | 63% | 58 | 76% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 4 | 50% | 5 | 40% |
| Hispanic | 7 | 43% | 13 | 77% |
| Two or More Races | 2 | 50% | 4 | 50% |
| Unknown | | | 2 | 100% |
| White | 45 | 69% | 33 | 82% |
| **COP4610** | 59 | 98% | 60 | 97% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 9 | 100% | 4 | 100% |
| Hispanic | 7 | 100% | 11 | 100% |
| Two or More Races | 2 | 100% | 8 | 100% |
| Unknown | | | 2 | 100% |
| White | 40 | 98% | 34 | 94% |
| **COP4708** | 46 | 78% | 72 | 85% |
| Black | 2 | 50% | 5 | 40% |
| Hispanic | 6 | 67% | 12 | 92% |
| Two or More Races | 3 | 33% | 2 | 100% |
| Unknown | | | 3 | 100% |
| White | 34 | 85% | 50 | 86% |
| **COP4709** | 6 | 83% | 15 | 80% |
| Asian | | | 1 | 100% |
| Black | | | 2 | 50% |
| Hispanic | | | 1 | 100% |
| Two or More Races | | | 1 | 100% |
| White | 6 | 83% | 10 | 80% |
| **COP4813** | 23 | 87% | 35 | 86% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 3 | 33% | 2 | 0% |
| Hispanic | | | 1 | 0% |
| Two or More Races | | | 1 | 100% |
| Unknown | | | 1 | 100% |
| White | 18 | 100% | 29 | 93% |

Source: IR Program Assessment Data

# Course Success Rates by Race/Ethnicity (3 of 3)

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| **COP4834** | 4 | 100% | 7 | 100% |
| Asian | | | 1 | 100% |
| Two or More Races | | | 1 | 100% |
| White | 4 | 100% | 5 | 100% |
| **COT3100** | 72 | 81% | 47 | 81% |
| Asian | 1 | 100% | 1 | 100% |
| Black | 5 | 60% | 4 | 50% |
| Hispanic | 11 | 82% | 9 | 78% |
| Two or More Races | 5 | 100% | 2 | 100% |
| Unknown | | | 1 | 100% |
| White | 50 | 80% | 30 | 83% |
| **CTS3348** | 58 | 69% | 44 | 68% |
| Black | 10 | 50% | 6 | 33% |
| Hispanic | 7 | 57% | 4 | 75% |
| Two or More Races | 3 | 67% | 1 | 100% |
| Unknown | | | 2 | 100% |
| White | 35 | 80% | 31 | 71% |
| **Grand Total** | 985 | 79% | 1051 | 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

# Overall Course Success Rates by Race/Ethnicity

| Program, Course, Race/Ethnicity | 2017-2018 | | 2018-2019 | |
|---|---|---|---|---|
| | Enrolled | Success Rate | Enrolled | Success Rate |
| Am. Ind | 8 | 75% | 3 | 100% |
| Asian | 35 | 77% | 22 | 68% |
| Black | 85 | 66% | 94 | 56% |
| Hawaii/Pac | 8 | 38% | | |
| Hispanic | 111 | 76% | 146 | 82% |
| Two or More Races | 36 | 67% | 55 | 84% |
| Unknown | | | 19 | 100% |
| White | 702 | 82% | 712 | 87% |
| Grand Total | 985 | 79% | 1051 | 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

# Special Data Request –Course Retakes

| Course | Count of Course Retakes |
|---|---|
| ACG3024 | |
| CDA4101 | 1 |
| CEN3722 | 2 |
| CEN4010 | |
| CEN4801 | 1 |
| CET3116 | 8 |
| CET4860 | 4 |
| CET4861 | |
| CET4862 | 1 |
| CET4884 | |
| CIS4250 | |
| CIS4360 | 9 |
| CIS4510 | |
| CNT3104 | 1 |
| CNT4007 | 1 |
| CNT4703 | |
| COP3530 | 8 |
| COP4610 | 1 |
| COP4708 | 5 |
| COP4709 | |
| COP4813 | 1 |
| COP4834 | |
| COT3100 | |
| CTS3348 | 7 |
| EET3085 | |
| EET3085L | |
| EET3086 | 3 |
| ETI3116 | |
| GEB3213 | |
| MAN4583 | |
| Grand Total | 53 |

Source: IR Program Assessment Data

# CIVITAS LEARNING – Illume  Students
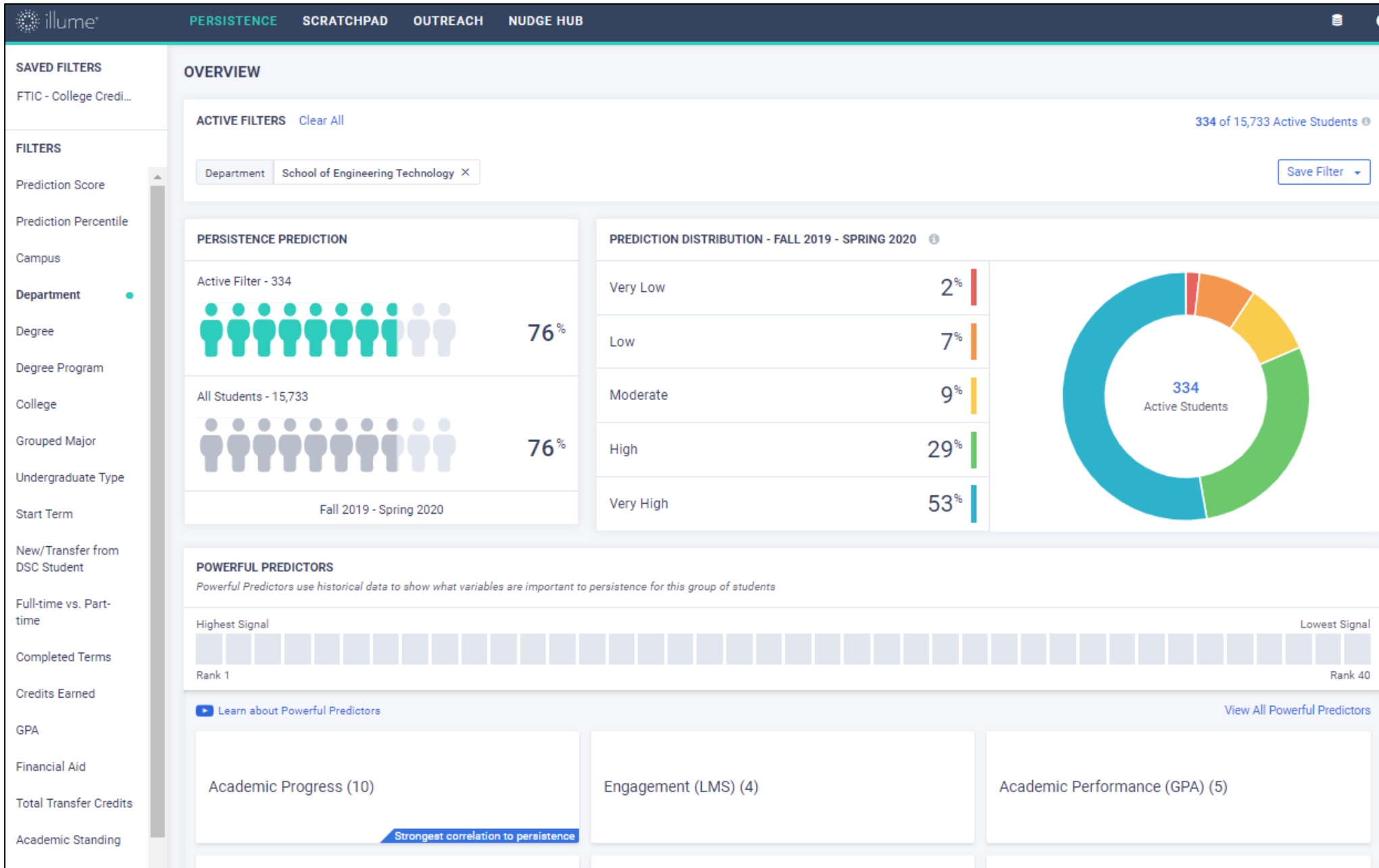
# CIVITAS LEARNING – Illume Courses
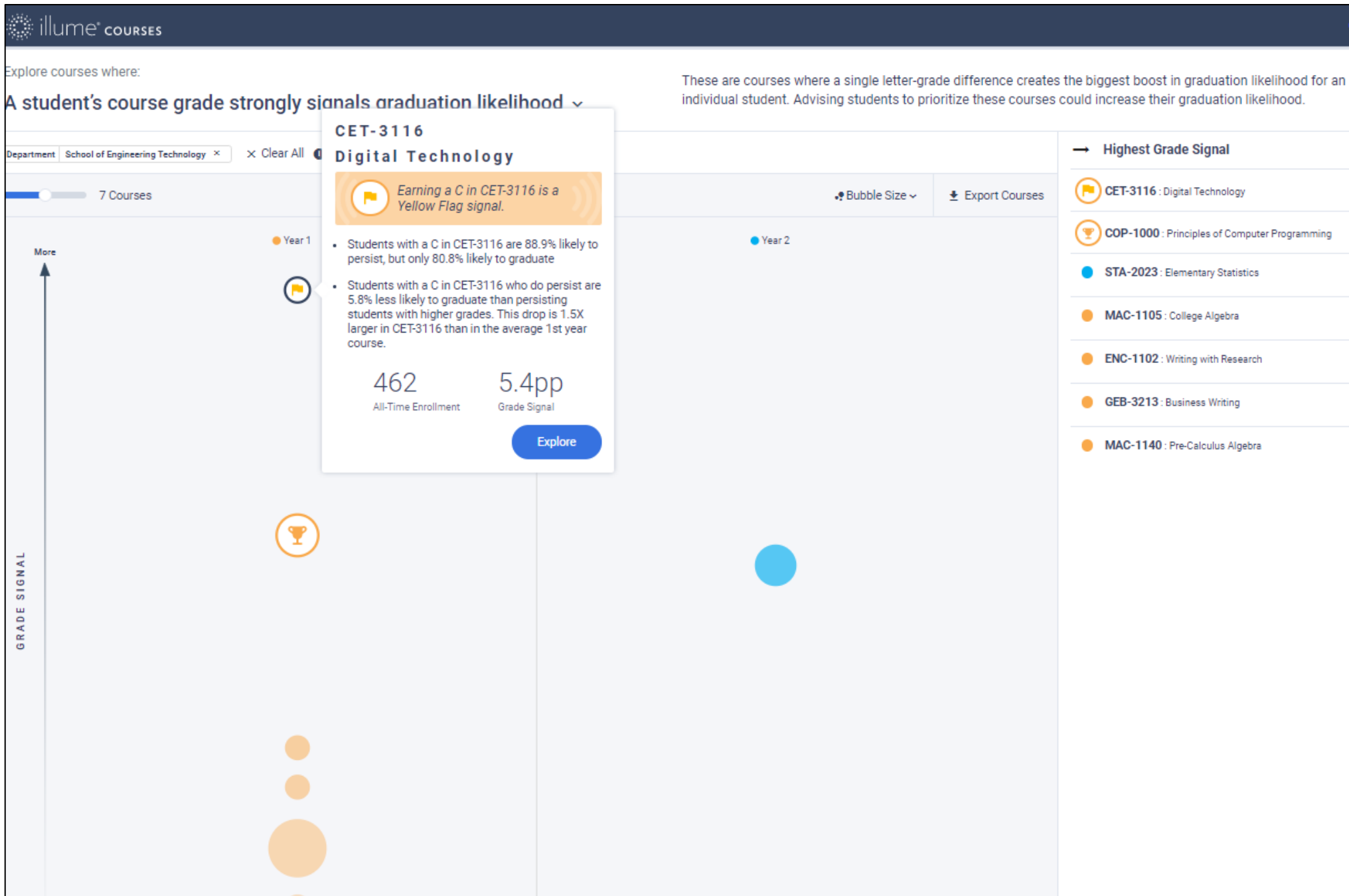
# 2019-2020
# Academic Affairs
# Assessment Day – Program Guides

*A Review of Program Guide and Course Catalog Information*

# Program Guides - Overview

- Given Assessment Day results, are there any changes <u>needed to</u> or <u>desired for</u> the Program Guide?

- Please Review:

  – Program Information

  – General Education Course Selections (if applicable)

  – Program Course Catalog Information

  – Program of Study

# Program Guides – Information Review

- Mission statement

  - Does it accurately state the purpose and goals of the program?

- Description

  - Does it clearly portray the nature of the program and any unique characteristics (i.e. embedded certificates, industry certifications, program accreditations, etc.)?

# Program Guides – General Ed. Review

- General Education Courses *(if applicable)*

    – Are the selection of courses aligned with the academic knowledge students need to be successful in the related field(s)/occupations?

        - Must be a minimum of 15 credit hours for A.S. programs *(F.A.C. 6A-10.024)*
        - Must include ENC1101 and a Math Core course

    – Do the selection of courses allow for seamless transition to the Baccalaureate level (if applicable)?

# Program Guides – Course Reqs. Review

- Program Specific Course Requirements

  - Are the courses relevant to the academic and technical skills required in the related field(s)/occupation(s)?

  - Are there any required courses offered by another department?  If so, consult with that department on upcoming changes (if any).

  - Are there any courses that have not been offered in over 5 years?

# Program Guides – Course Info. Review

- Program Specific Course Catalog Information

    – Is the course description accurate?

    – Are the course prefix, number and/or title relevant?

    – Are the term offerings up-to-date?

    – Are the prerequisite and corequisite course assignments appropriate to what students need to know to be successful in the requisite *(required)* course?

# Program Guide – Program of Study Review

- Program of Study

  – Is the sequence of courses structured from foundational to advanced content, as appropriate?

  – Does the sequence align with course, term offerings?

  – Does the sequence align with course, prerequisite/co-requisite assignments?

  – Are there any special notes/information missing, incorrect or desired?