

**Program Outcome and Assessment(s)**  
**2019-2020 Program Outcome Assessments Year-End Reporting Form**  
**Program Review Cycle - 2018-19**

In response to SACSCOC 8.2, *“The institution identifies expected outcomes, assesses the extent to which it achieves these outcomes, and provides evidence of seeking improvement based on analysis of the results ...”*

Name of Program: Mechanical Engineering Technology

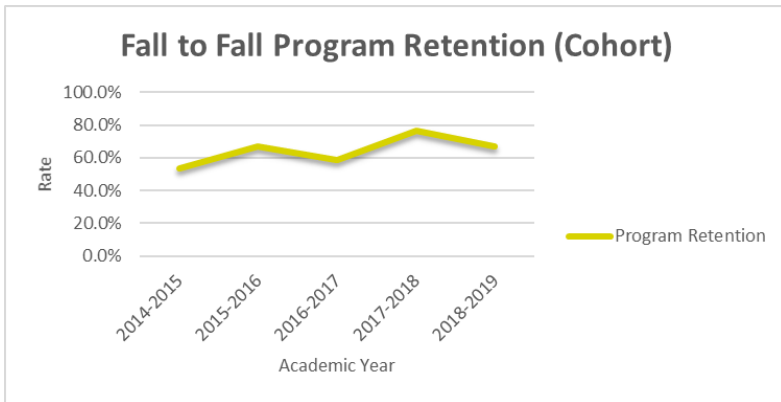
**Program Outcome #1: Program Retention, Fall to Fall**

**Baseline:** 60 % (Average of three years – 2014-15; 2015-16; 2016-17; fall-to-fall program retention)  
**Standard:** 63 % Fall to Fall  
**Target:** 66 % Fall to Fall

**2019-2020 Action / Strategy Items:**

| Item # | Action / Strategy Items: (Actions / strategies identified in the 2018-19 program review.)   | Results / Use of Results: (Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.) |
|--------|---|--|
| 1      | Continue to work with Academic skills, achievement coaches, and provide quality instruction to prepare our students for work in the industry. | Academic Skills is a great help to the success of some of the students. I do not have data on any students working with the achievement coach. We will continue this action to benefit the students.   |

| Year (Fall to Fall) | Program Fall Enrollment Cohort | Program Completers | Program Returners | Program Non-Completers | Program Transfers | Program Retention |
|---------------------|--------------------------------|--------------------|-------------------|------------------------|-------------------|-------------------|
| Fall 2014-Fall 2015 | 58                             | 7                  | 24                | 21                     | 6                 | 53.4%             |
| Fall 2015-Fall 2016 | 48                             | 14                 | 18                | 11                     | 5                 | 66.7%             |
| Fall 2016-Fall 2017 | 46                             | 6                  | 21                | 17                     | 2                 | 58.7%             |
| Fall 2017-Fall 2018 | 43                             | 9                  | 24                | 10                     | 0                 | 76.7%             |
| Fall 2018-Fall 2019 | 42                             | 13                 | 15                | 14                     | 4                 | 66.7%             |



**Provide narrative for analysis of program retention data** *(Based on the data, provide a narrative of your analysis of fall to fall retention. Indicate factors that may have affected your retention. State any changes you plan to address for next year that may affect retention.)*

Many students that take our classes at the Wayne School of Engineering, take our class to get the basics of design and as an exploratory course. Many of the students get their transfer degree and take the other courses at a 4 year college. Students benefit greatly from these courses, but reflects on the program that we did not retain those students. We will continue this action item.

**Provide narrative for analysis of program retention standard/target** *(As a result of the data analysis, indicate changes to the standard or target. Did you meet your standard/target? If you met your standard/target, what percentage would you like to increase your standard/target?)*

The standard/target was met and we will increase the standard to 65% and the target to 68%.

**2020-2021 Action / Strategy Items:**

*(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)*

| Item | Action / Strategy Items <i>(Identify action items as a result of your program outcome assessment.)</i>  | Target Date <i>(Identify your projected target date for completion of action items.)</i> | Assessment of Action Items <i>(State the method of assessment; how you plan to evaluate/assess the results of the action items.)</i> |
|------|---|--|--|
| 1    | Continue to work with Academic skills, achievement coaches, and provide quality instruction to prepare our students for work in the industry. | Fall 2021  | From retention data.   |

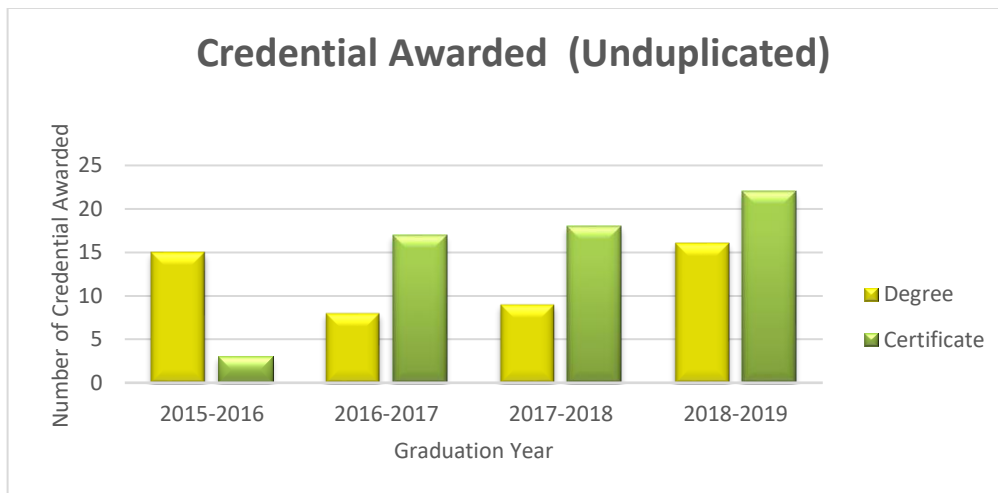
**Program Outcome #2: Completions (Graduation) (unduplicated)**

**Baseline:** 23 # (Average of three years – 2015-16; 2016-17; 2017-18)  
**Standard:** 29 #  
**Target:** 35 #

**2019-2020 Action / Strategy Items:**

| Item # | Action / Strategy Items: (Actions / strategies identified in the 2018-19 program review.)   | Results / Use of Results: (Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.) |
|--------|---|--|
| 1      | Provide students with clear expectations of the work and effort needed to be successful in the program and to be able to gain employment. | Both Degree & Certificate completers increased. We will continue this Action Item.   |

| Number of Completers (unduplicated) – Graduation Year – Summer, Fall, Spring |        |         |             |       |
|--|--------|---------|-------------|-------|
| Graduation Year  | Degree | Diploma | Certificate | Total |
| 2015-2016  | 15     |         | 3           | 18    |
| 2016-2017  | 8      |         | 17          | 25    |
| 2017-2018  | 9      |         | 18          | 27    |
| 2018-2019  | 16     |         | 22          | 38    |



**Provide narrative for analysis of completion data** (Based on the data, provide a narrative of your analysis of completions. Indicate factors that may have affected your completions. How might you increase the number of completers in your program?)

This action item was introduced to make students aware of the hiring process for our graduates and which type of student will be more likely to get hired. This also applies to students that transfer to other schools and take on more leadership opportunities at those schools with the education they learn from our program.

**Provide narrative for analysis of completion standard/target** *(As a result of the data analysis, indicate changes to the standard or target. Did you meet your standard/target? If you met your standard/target, what percentage would you like to increase your standard/target?)*

We had 38 completers / graduates in the program. We exceeded the standard and target but recommend retaining the standard and target as identified.

**2020-2021 Action / Strategy Items:**

*(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)*

| <b>Item</b> | <b>Action / Strategy Items</b> <i>(Identify action items as a result of your program outcome assessment.)</i>                             | <b>Target Date</b> <i>(Identify your projected target date for completion of action items.)</i> | <b>Assessment of Action Items</b> <i>(State the method of assessment; how you plan to evaluate/assess the results of the action items.)</i> |
|-------------|---|---|---|
| 1           | Provide students with clear expectations of the work and effort needed to be successful in the program and to be able to gain employment. | Fall 2021   | From the completion data.   |

**Program Outcome #3: Job Placement / Employment**

**Baseline:** 92 % (Average of three years – 2015-16; 2016-17; 2017-18 employed/more education)  
**Standard:** 93 %  
**Target:** 94 %

**2019-2020 Action / Strategy Items:**

| Item # | Action / Strategy Items: (Actions / strategies identified in the 2018-19 program review.)           | Results / Use of Results: (Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.) |
|--------|---|--|
| 1      | Continue to work with advisory committee members and industry employers to place students into jobs | Our advisory board and local business partners have a great impact on our students and their employment.   |

| Employment Demand |           |                          |  |  |         |                |
|-------------------|-----------|--------------------------|--|--|---------|----------------|
| Year              | Graduates | # Employed (within 1 Yr) | # Seeking More Education (within 1 Yr) | % Employed & Seeking More Education (add # employed and # seeking more education and divide by # of graduates) | Unknown | Other/Comments |
| 2015-16           | 18        | 9                        | 7                                      | 89%  | 1       |                |
| 2016-17           | 25        | 7                        | 7                                      | 56%  | 0       |                |
| 2017-18           | 27        | 7                        | 27                                     | 126%   | 0       |                |
| 2018-19           | 38        | 9                        | 20                                     | 76%  | 0       |                |

**Provide narrative for analysis of job placement/employment data** (Based on the data, provide a narrative of your analysis of job placement / employment. Indicate factors that may have affected job placement / employment. How can your program promote higher employment of students in the field?)

We are very satisfied with the number of students that get employed through our program. If students want to work, and if they do well in the coursework, then they can get a job during the recent economies. Many of the students are desiring to seek more education, which we also promote.

**Provide narrative for analysis of job placement/employment standard/target** (As a result of the data analysis, indicate changes to the standard or target. Did you meet your standard/target? If you met your standard/target, what percentage would you like to increase your standard/target?)

We did not achieve our standard or target. We recommend retaining our standard and target as indicated.

**2020-2021 Action / Strategy Items:**

*(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)*

| <b>Item</b> | <b>Action / Strategy Items</b> <i>(Identify action items as a result of your program outcome assessment.)</i> | <b>Target Date</b> <i>(Identify your projected target date for completion of action items.)</i> | <b>Assessment of Action Items</b> <i>(State the method of assessment; how you plan to evaluate/assess the results of the action items.)</i> |
|-------------|---|---|---|
| 1           | Continue to work with advisory committee members and industry employers to place students into jobs           | Fall 2021   | From the job placement data.  |

**Program Outcome #4: Licensure and Certification Passing Rates (if applicable) Not applicable.**

**Baseline:** N/A % (Average of three years – identify last three licensure years)  
**Standard:** N/A %  
**Target:** N/A %

**2019-2020 Action / Strategy Items:**

| Item # | Action / Strategy Items: (Actions / strategies identified in the 2018-19 program review.) | Results / Use of Results: (Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.) |
|--------|---|--|
| 1      | Not applicable.   |  |

**Licensure / Certification Exam – Title**

| NCCCS Report | Exam Year | # Tested | # Passed | % Passing | Index Score |
|--------------|-----------|----------|----------|-----------|-------------|
| 2016         | 2014-15   |          |          |           |             |
| 2017         | 2015-16   |          |          |           |             |
| 2018         | 2016-17   |          |          |           |             |
| 2019         | 2017-18   |          |          |           |             |

**Provide narrative for analysis of licensure / certification passing rates data** (Based on the data, provide a narrative of your analysis of licensure / certification. Are you satisfied with your program licensure rates? State any changes you plan to address for licensure/certification passing rates.)

Not applicable.

**Provide narrative for analysis of licensure / certification passing rates standard/target** (As a result of the data analysis, indicate changes to the standard or target. Did you meet your standard/target? If you met your standard/target, what percentage would you like to increase your standard/target?)

Not applicable.

**2020-2021 Action / Strategy Items:**

(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)

| Item | Action / Strategy Items (Identify action items as a result of your program outcome assessment.) | Target Date (Identify your projected target date for completion of action items.) | Assessment of Action Items (State the method of assessment; how you plan to evaluate/assess the results of the action items.) |
|------|---|---|---|
| 1    | Not applicable.   |   |   |

**Program Outcome #5: Third-Party Credentials (if applicable)**

**Baseline:** 12 # (Average of three years – 2015-16; 2016-17; 2017-18)  
**Standard:** 15 #  
**Target:** 18 #

**2019-2020 Action / Strategy Items:**

| Item # | Action / Strategy Items: (Actions / strategies identified in the 2018-19 program review.) | Results / Use of Results: (Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.) |
|--------|---|--|
| 1      | Incorporate more parts to practice that will prepare students for the exam.               | Designing these parts for practice prepares the students for the exam.   |

**Third-Party Credentials**

| Academic Year<br>Fall, Spring, Summer | Credentials for Program of Study | # Tested<br>(duplicated) | # Passed |
|---------------------------------------|----------------------------------|--------------------------|----------|
| 2015-2016                             | Solidworks Associate Level Exam  | 15                       | 12       |
| 2016-2017                             | Solidworks Associate Level Exam  | 15                       | 12       |
| 2017-2018                             | Solidworks Associate Level Exam  | 0                        | 0        |
| 2018-2019                             | Solidworks Associate Level Exam  | 22                       | 5        |
| 2019-2020                             | Solidworks Associate Level Exam  | 1                        | 1        |

**Provide narrative for analysis of third-party credentials data** (Based on the data, provide a narrative of your analysis of third-party credentials. Are there other industry-recognized credentials that need to be addressed for the program of study? What are other means to promote program third-party credentials.)

There are no other third-party credentials that will benefit our students in the area of design that we cover. Majority of the students passed the third-party exam.

**Provide narrative for analysis of third-party credentials standard/target** (As a result of the data analysis, indicate changes to the standard or target. Did you meet your standard/target? If you met your standard/target, what percentage would you like to increase your standard/target?)

Twenty-three students tested and 6 passed the NC3 Solidworks Associate Level Exam in the years 2018-19 and 2019-20. We did not achieve our standard or target.

**2020-2021 Action / Strategy Items:**

(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)

| Item | Action / Strategy Items (Identify action items as a result of your program outcome assessment.) | Target Date (Identify your projected target date for completion of action items.) | Assessment of Action Items (State the method of assessment; how you plan to evaluate/assess the results of the action items.) |
|------|---|---|---|
|------|---|---|---|



|   |   |           |                             |
|---|---|-----------|-----------------------------|
| 1 | Incorporate more parts to practice that will prepare students for the exam. | Fall 2020 | Prepare students for exams. |
|---|---|-----------|-----------------------------|

**Program Outcome #6: Other Assessment (if applicable)**

**2019-2020 Action / Strategy Items:**

| <b>Item #</b> | <b>Action / Strategy Items:</b> <i>(Actions / strategies identified in the 2018-19 program review.)</i> | <b>Results / Use of Results:</b> <i>(Provide results of the action / strategy identified. Was the action / strategy successful? If not, did you want to continue this action / strategy going forward? If so, please include this action / strategy in the 2020-21 action / strategies table below.)</i> |
|---------------|---|--|
| 1             | Not applicable.   |  |

**2020-2021 Action / Strategy Items:**

*(Identify and address outcome assessments that fall below the established standard and/or target and additional recommendations resulting from the review.)*

| <b>Item</b> | <b>Action / Strategy Items</b> <i>(Identify action items as a result of your program outcome assessment.)</i> | <b>Target Date</b> <i>(Identify your projected target date for completion of action items.)</i> | <b>Assessment of Action Items</b> <i>(State the method of assessment; how you plan to evaluate/assess the results of the action items.)</i> |
|-------------|---|---|---|
| 1           | Not applicable.   |   |   |