NORCO COLLEGE
ANNUAL INSTRUCTIONAL PROGRAM REVIEW

Discipline/Unit: **Engineering**

(If applicable) **Program or Certificate: Drafting Technology**

Please give the full title of the discipline or department. You may submit as a discipline or department as is easiest for your unit

Contact Person: **Gerald Cordier**
Due: April 20, 2016

Please send an electronic copy in a word document to:
programreview@norcocollege.edu

Form Last Revised: March 2016

Norco College

Web Resources: http://www.rccd.edu/administration/educationalservices/ieffectiveness/Pages/ProgramReview.aspx

Annual Instructional Program Review Update
Instructions

*Please retain this information for your discipline's/department's use (or forward to your chair).

The Annual Self-Study is conducted by each unit on each college and consists of an analysis of changes within the unit as well as significant new resource needs for staff, resources, facilities, and equipment. It should be **submitted by April 20** or the first working day following the 20th in anticipation of budget planning for the fiscal year, which begins July 1 of the *following* calendar year.

For Program Review data, please go to the following link:
http://www.norcocollege.edu/about/president/strategic-planning/programreview/Pages/index.aspx

The questions on the subsequent pages are intended to assist you in planning for your unit.

The forms that follow are separated into pages for ease of distribution to relevant subcommittees. **Please keep the pages separated** if possible (though part of the same electronic file), **with the headers as they appear**, and be sure to include your unit, contact person (this may change from topic to topic) and date on each page submitted. Don't let formatting concerns slow you down. If you have difficulty with formatting, Nicole C. Ramirez can adjust the document for you. Simply add responses to those questions that apply and forward the document to nicole.ramirez@norcocollege.edu with a request to format it appropriately.

If you cannot identify in which category your requests belong or if you have complex-funding requests please schedule an appointment with your college's Vice President for Business Services right away. They will assist you with estimating the cost of your requests. For simple requests such as the cost of a staff member, please e-mail your Vice President. It is vital to include cost estimates in your request forms. Each college uses its own prioritization system. Inquiries regarding that process should be directed to your Vice President.

Norco: **VP Business Services**   **951-372-7157**

Mission

Norco College serves our students, our community, and its workforce by providing educational opportunities, celebrating diversity, and promoting collaboration. We encourage an inclusive, innovative approach to learning and the creative application of emerging technologies. We provide foundational skills and pathways to transfer, career and technical education, certificates and degrees.

Vision

Norco – creating opportunities to transform our students and community for the dynamic challenges of tomorrow.

Strategic Plan: Goals and Objectives 2013-2018

Goal 1: Increase Student Achievement and Success

Objectives:
1. Improve transfer preparedness (completes 60 transferable units with a 2.0 GPA or higher).
2. Improve transfer rate by 10% over 5 years.
3. Increase the percentage of basic skills students who complete the basic skills pipeline by supporting the development of alternatives to traditional basic skills curriculum.
4. Improve persistence rates by 5% over 5 years (fall-spring; fall-fall).
5. Increase completion rate of degrees and certificates over 6 years.
6. Increase success and retention rates.
7. Increase percentage of students who complete 15 units, 30 units, 60 units.
8. Increase the percentage of students who begin addressing basic skills needs in their first year.
9. Decrease the success gap of students in online courses as compared to face-to-face instruction.
10. Increase course completion, certificate and degree completion, and transfer rates of underrepresented students.

Goal 2: Improve the Quality of Student Life

Objectives:
1. Increase student engagement (faculty and student interaction, active learning, student effort, support for learners).
2. Increase frequency of student participation in co-curricular activities.
3. Increase student satisfaction and importance ratings for student support services.
4. Increase the percentage of students who consider the college environment to be inclusive.
5. Decrease the percentage of students who experience unfair treatment based on diversity-related characteristics.
6. Increase current students' awareness about college resources dedicated to student success.

Goal 3: Increase Student Access

Objectives:
1. Increase percentage of students who declare an educational goal.
2. Increase percentage of new students who develop an educational plan.
3. Increase percentage of continuing students who develop an educational plan.
4. Ensure the distribution of our student population is reflective of the communities we serve.
5. Reduce scheduling conflicts that negatively impact student completion of degrees and programs.

Goal 4: Create Effective Community Partnerships

Objectives:
1. Increase the number of students who participate in summer bridge programs or boot camps.
2. Increase the number of industry partners who participate in industry advisory council activities.
3. Increase the number of dollars available through scholarships for Norco College students.
4. Increase institutional awareness of partnerships, internships, and job opportunities established with business and industry.
5. Continue the success of Kennedy Partnership (percent of students 2.5 GPA+, number of students in co-curricular activities, number of students who are able to access courses; number of college units taken).
6. Increase community partnerships.
7. Increase institutional awareness of community partnerships.
8. Increase external funding sources which support college programs and initiatives.

Goal 5: Strengthen Student Learning

Objectives:
1. 100% of units (disciplines, Student Support Service areas, administrative units) will conduct systematic program reviews.
2. Increase the percentage of student learning and service area outcomes assessments that utilize authentic methods.
3. Increase the percentage of programs that conduct program level outcomes assessment that closes the loop.
4. Increase assessment of student learning in online courses to ensure that it is consistent with student learning in face-to-face courses.
5. Increase the number of faculty development workshops focusing on pedagogy each academic year.

Goal 6: Demonstrate Effective Planning Processes

Objectives:
1. Increase the use of data to enhance effective enrollment management strategies.
2. Systematically assess the effectiveness of strategic planning committees and councils.
3. Ensure that resource allocation is tied to planning.
4. Institutionalize the current Technology Plan.
5. Revise the Facilities Master Plan.

Goal 7: Strengthen Our Commitment To Our Employees

Objectives:
1. Provide professional development activities for all employees.
2. Increase the percentage of employees who consider the college environment to be inclusive.
3. Decrease the percentage of employees who experience unfair treatment based on diversity-related characteristics.
4. Increase participation in events and celebrations related to inclusiveness.
5. Implement programs that support the safety, health, and wellness of our college community.

# I. Norco College Annual Instructional Program Review Update

Unit: _____

Contact Person: _____

Date: _____

Trends and Relevant Data

1. **How does your unit support the mission of the College?**

2. **Have there been any changes in the status of your unit? (if not, please indicate with an "N/A")**

    a. Has your unit shifted departments?

    b. Have any new certificates or complete programs been created by your unit?

    c. Have activities in other units impacted your unit? For example, a new Multi Media Grant could cause greater demand for Art courses.

3. **List and discuss your retention and success rates as well as your efficiency.   Please be aware that the data have been disaggregated for your analysis. Please list online, hybrid and face-to-face-data separately.**

	OVERALL	2010-11	2010-11	2011-12	2011-12	2012-13	2012-13	2013-14	2013-14	2014-15	2014-15
		Success	Retention	Success	Retention	Success	Retention	Success	Retention	Success	Retention
	Total	78.3%	85.8%	78.4%	84.7%	76.7%	84.8%	79.9%	86.3%	74.5%	85.3%
ETHNICITY	American Indian or Alaska Native	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%
	Asian	86.5%	93.2%	84.4%	86.5%	85.1%	88.1%	82.0%	84.0%	75.9%	85.2%
	Black or African American	62.2%	78.4%	51.6%	77.4%	72.7%	81.8%	80.0%	92.0%	50.0%	60.0%
	Hispanic/Latino	76.0%	83.6%	75.9%	82.7%	72.2%	83.8%	78.0%	85.7%	74.4%	86.0%
	Native Hawaiian or Other Pacific Islander	100.0%	100.0%	0.0%	0.0%	100.0%	100.0%	75.0%	75.0%	85.7%	85.7%
	Two or More Races	87.5%	93.8%	71.4%	71.4%	84.4%	87.5%	81.1%	83.8%	73.9%	82.6%
	White	80.8%	87.6%	83.7%	89.4%	78.8%	84.7%	82.8%	87.8%	75.3%	86.3%
	Non-Respondent	77.3%	84.1%	86.1%	91.7%	88.9%	88.9%	80.0%	90.0%	71.4%	71.4%
AGE	19 or less	74.3%	84.0%	83.9%	91.7%	78.8%	89.0%	84.3%	88.8%	70.7%	80.8%
	20 to 24	76.2%	84.2%	75.6%	81.1%	73.1%	81.1%	74.1%	83.1%	72.7%	87.2%
	25 to 29	81.4%	87.8%	78.5%	84.6%	78.3%	86.8%	80.6%	86.6%	77.0%	83.5%
	30 to 34	91.9%	93.5%	74.1%	83.3%	81.8%	87.9%	86.1%	92.4%	85.9%	94.1%
	35 to 39	78.3%	84.8%	79.4%	82.4%	88.4%	88.4%	87.3%	90.9%	80.0%	93.3%
	40 to 49	88.4%	95.3%	79.5%	81.8%	78.0%	90.2%	82.6%	84.8%	65.8%	76.3%
	50+	79.6%	83.7%	75.0%	85.0%	69.4%	75.0%	87.0%	87.0%	50.0%	57.1%
GENDER	Female	80.0%	86.7%	79.1%	82.9%	78.5%	86.9%	87.0%	92.6%	70.7%	78.0%
	Male	78.4%	85.9%	78.4%	85.0%	76.7%	84.8%	78.7%	85.3%	75.0%	86.4%
	Non-Respondent	40.0%	60.0%	0.0%	100.0%	0.0%	0.0%	100.0%	100.0%	0.0%	0.0%

Term	Efficiency
Summer 2010	651.286
Fall 2010	564.761
Winter 2011	639.264
Spring 2011	544.345
Summer 2011	902.371
Fall 2011	673.254
Winter 2012	909.226
Spring 2012	609.821
Summer 2012	0.000
Fall 2012	646.397
Winter 2013	728.850
Spring 2013	587.152
Summer 2013	865.486
Fall 2013	622.536
Winter 2014	378.650
Spring 2014	617.058
Summer 2014	696.171
Fall 2014	570.848
Winter 2015	384.167
Spring 2015	541.894
Total	601.660

Efficiency 2010-2015
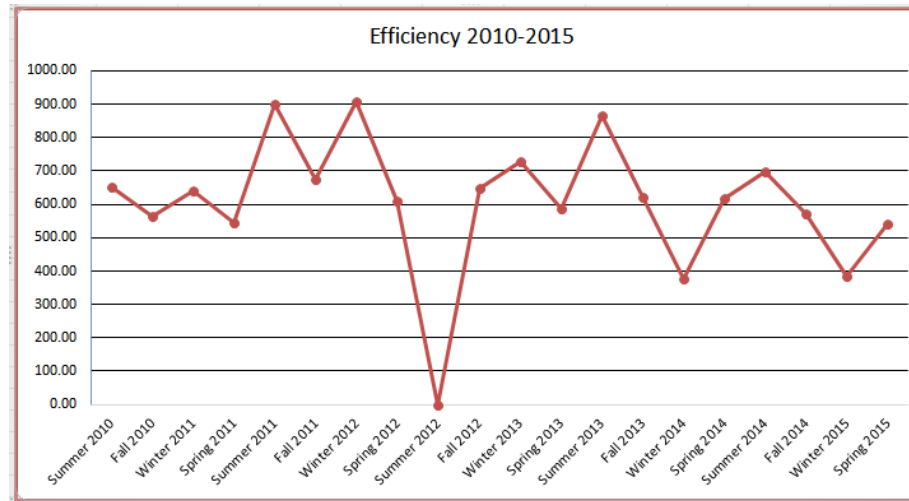
What are the changes or significant trends in the data, including differences among gender, age and ethnicity? To what do you attribute these changes?

The retention rate for engineering from 2012-11 to 2014-15 has dropped from 85.8% to 85.3%. This is a slight negative trend of 0.5%. With the improvement of the economy, there has been an increase of students obtaining drafting positions in industry. Within the last two years, we have been receiving more requests for students seeking CAD/Drafting positions in industry. If a student does obtain a position in industry, they usually drop their day classes to accommodate their new job.

The success rate for engineering from 2012-11 to 2014-15 has dropped from 78.3% to 74.5%. This is a slight negative trend of 3.8%. With the improvement of the economy, there has been an increase of students obtaining drafting positions in industry. Within the last two years, we have been receiving more requests for students seeking CAD/Drafting positions in industry. If a student does obtain a position in industry, they usually drop their day classes to accommodate their new job.

			2012-13	2013-14	2014-15
NORCO COLLEGE AWARDS			1,034	1,148	1,090
Associate of Science (A.S.) degree	Total		248	220	243
1		Architecture and Architectural Technology-020100	8	6	1
3		Drafting Technology-095300	6	4	3
7		Engineering Technology, General (requires Trigonometry)-092400	11	8	7
Certificate requiring 18 to < 30 semester units	Total		39	54	26
		Architecture and Architectural Technology-020100	9	6	
6		Drafting Technology-095300	7	14	6
		Engineering Technology, General (requires Trigonometry)-092400	6	5	3
Certificate requiring 6 to < 18 semester units	Total		167	161	129
5		Architecture and Architectural Technology-020100	11	16	5
		Drafting Technology-095300	39	33	15

This analysis includes students who enrolled in at least one course at Norco in Fall 2015 and had a declared program of study. Current as of 12/22/15 Students may have more than one Active Program of Study or a Program of Study not offered at Norco

Program Title	Frequency	Percent
Architecture	77	0.6%
Drafting Technology	48	0.4%

Engineering Technology	155	1.3%
Engineering: Engineering Graphics	21	0.2%
Engineering: Pre-Engineering	42	0.4%
Engineering: Pre-Engineering CSUGE	11	0.1%
Engineering: Pre-Engineering IGETC	19	0.2%

4. List the resources that you received in the last year as a result of program review. How did the resources impact student learning? If you requested resources and did not receive them, how did it impact your unit?

"N/A"

5. What annual goals does your unit have for 2016-2017 (please list the most important first)? Please indicate if a goal is directly linked to goals in your comprehensive. How do your goals support the college mission and the goals of the Strategic Plan/Educational Master Plan?

List the goals of your unit for 2016-2017	Define activity(s) linked to the goal	Briefly explain the relationship of goal to mission and Strategic Plan/Educational Master Plan (see above)	Indicate if goal is limited to Distance Education

Your unit may need assistance to reach its goals. Financial resources should be listed on the subsequent forms. In addition you may need help from other units or Administrators. Please list that on the appropriate form below, or on the form for "other needs."

Norco College Annual Instructional Program Review Update

Unit: _____

Contact Person: _____

Date: _____

Current Human Resource Status

6. Complete the Faculty and Staff Employment Grid below. Please list full and part time faculty numbers in separate rows. Please list classified staff who are full and part time separately:

Faculty Employed in the Unit		
Teaching Assignment (e.g. Math, English)	Full-time faculty or staff (give number)	Part-time faculty or staff (give number)
Drafting/Engineering	2	4
Architecture		2

Classified Staff Employed in the Unit		
Staff Title	Full-time staff (give number)	Part-time staff (give number)

Unit Name: _____

7. Staff Needs

NEW OR REPLACEMENT STAFF (Administrator, Faculty or Classified)[1]

List Staff Positions Needed for Academic Year_____ **Please justify and explain each faculty request as they pertain to the goals listed in item #3.** Place titles on list in order (rank) or importance. Please state if the request impacts Distance Education.	**Indicate (N) = New or (R) = Replacement**	**Number of years requested**	**Annual TCP***
1. Two engineering full time faculty. Justification Carlos Garcia and Gerald Cordier are retiring Spring 2016.	2	FIRST TIME	$114,612 times 2= $229,334
2. Justification:			
3. Justification:			
4. Justification:			
5. Justification:			
6. Justification:			

* TCP = "Total Cost of Position" for one year is the cost of an average salary plus benefits for an individual. New positions (not replacement positions) also require space and equipment. Please speak with your college Business Officer to obtain accurate cost estimates. Please be sure to add related office space, equipment and other needs for new positions to the appropriate form and mention the link to the position. Please complete this form for "New" Classified Staff only. All replacement staff <u>must</u> be filled per Article I, Section C of the California School Employees Association (CSEA) contract.

Requests for staff and administrators will be sent to the Business and Facilities Planning Council. Requests for faculty will be sent to the Academic Planning

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[1] If your SLO assessment results make clear that particular resources are needed to more effectively serve students please be sure to note that in the "reason" section of this form.

Unit Name: _____

8. Equipment (including technology) Not Covered by Current Budget[2]

List Equipment or Equipment Repair Needed for Academic Year_____ Please list/summarize the needs of your unit on your college below. Please be as specific and as brief as possible. Place items on list in order (rank) or importance. Please state if the request impacts Distance Education.	*Indicate whether Equipment is for (I) = Instructional or (N) = Non-Instructional purposes	Annual TCO*				
		Number of years requested	Cost per item	Number Requested	Total Cost of Request	EMP GOALS
1. three 3D printers. Two of the three that we have are old and broken and the company will no longer service them. Justification These machines will help Norco students to dream, invent and build. These 3D printers can be used by all the programs at Norco College. 3D printers are used in art, engineering, medical, manufacturing, movies, architecture, aerospace, automotive, dentistry, science, math, and the list goes on. Their use is only limited by ones imagination. The machines are used to help the drafting and engineering students with their reverse engineering and design projects.	**(I)**	**FIRST TIME**	**$10,000**	3	**$30,000**	
2. Larger size monitors (27" to 30") for room ATEC 109. Justification This would help increase drawing time up to 30%. More time spent on drawing and less time zooming in and out, and less eye strain. This would also match the size of the monitors in room IT 127	**(I)**	**FIRST TIME**	**Low end $200.00**	37	**$7,400 TO $14,800**	

[2] If your SLO assessment results make clear that particular resources are needed to more effectively serve students please be sure to note that in the "reason" section of this form.

and establish uniformity. The monitors in IT 127 are awesome to work on and are the size typically used in industry.			**High end $400.00**			
3. Justification:						
4. Justification:						
5. Justification:						
6. Justification:						

* Instructional Equipment is defined as equipment purchased for instructional activities involving presentation and/or hands-on experience to enhance student learning and skills development (i.e. desk for student or faculty use).
Non-Instructional Equipment is defined as tangible district property of a more or less permanent nature that cannot be easily lost, stolen or destroyed; but which replaces, modernizes, or expands an existing instructional program. Furniture and computer software, which is an integral and necessary component for the use of other specific instructional equipment, may be included (i.e. desk for office staff).
** These requests are sent to the Business and Facilities Planning Council.

Unit Name: _____

9. Professional or Organizational Development Needs Not Covered by Current Budget*[3]

List Professional Development Needs for Academic Year_____. Reasons might include in response to assessment findings or	**Annual TCO***

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[3] If your SLO assessment results make clear that particular resources are needed to more effectively serve students please be sure to note that in the "reason" section of this form.

the need to update skills to comply with state, federal, professional organization requirements or the need to update skills/competencies. Please be as specific and as brief as possible. Some items may not have a cost per se, but reflect the need to spend current staff time differently. Place items on list in order (rank) or importance. Examples include local college workshops, state/national conferences. Please state if the request impacts Distance Education.	Cost per item	Number Requested	Total Cost of Request	EMP Goals
1. Professional Development funding for conference attendance at either Autodesk University or SolidWorks World. Reason: To update skills and experience new trends in engineering software and design applications. Justification	$2,200	2	$4,400	
2. Justification:				
3. Justification:				
4. Justification:				
5. Justification:				
6. Justification:				

*It is recommended that you speak with the Faculty Development Coordinator to see if your request can be met with current budget.

** These requests are sent to the Professional Development Committee for review.

Unit Name: _____

10. Student Support Services, Library, and Learning Resource Center (see definition below*) Services needed by your unit over and above what is currently provided by student services at your college. Requests for Books, Periodicals, DVDs, and Databases must include specific titles/authors/ISBNs when applicable. Do not include textbook requests. These needs will be communicated to Student Services at your college[4]

List Student Support Services Needs for Academic Year_____ Please list/summarize the needs of your unit on your college below. Please be as specific and as brief as possible. Not all needs will have a cost, but may require a reallocation of current staff time. Please state if the request impacts Distance Education.	EMP GOALS
1. Justification:	
2. Justification:	
3. Justification:	
4. Justification:	
5. Justification:	
6. Justification:	

*Student Support Services include for example: tutoring, counseling, international students, EOPS, job placement, admissions and records, student assessment (placement), health services, student activities, college safety and police, food services, student financial aid, and matriculation.

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[4] If your SLO assessment results make clear that particular resources are needed to more effectively serve students please be sure to note that in the "reason" section of this form.

Unit Name: _____

11. OTHER NEEDS AND LONG TERM SAFETY CONCERNS not covered by current budget[5]
** For immediate hazards, contact your supervisor **

List Other Needs that do not fit elsewhere. Please be as specific and as brief as possible. Not all needs will have a cost, but may require a reallocation of current staff time. Place items on list in order (rank) or importance.	Annual TCO*			
	Cost per item	**Number Requested**	**Total Cost of Request**	**EMP Goals**
1. Justification:				
2. Justification:				
3. Justification:				
4. Justification:				
5. Justification:				
6. Justification:				

These requests are sent to the Business and Facilities Planning Council, but are not ranked. They are further reviewed as funding becomes available.

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[5] If your SLO assessment results make clear that particular resources are needed to more effectively serve students please be sure to note that in the "reason" section of this form.

Rubric for Annual Instructional Program Review - Part I only

Discipline: Contact Person:

Reviewer: Average Score:

Area of Assessment	0 No attempt	1 some attempt	2 good attempt	3 outstanding attempt
1. Retention, success, and efficiency rates have been identified and reflected upon.	No attempt to list retention, success, or efficiency data	Limited attempt to identify or discuss identified data	Clear attempt to identify and discuss identified data	Substantial attempt to identify and discuss/interpret identified data
2. Previous recourse requests stated and impact discussed.	No resource requests discussed	Limited discussion of resource requests or limited attempt to link to student learning.	Resources discussed and clear attempt to identify student impact	Resources discussed and substantial attempt to identify student impact OR No resources were requested.
3. There are annual goals for refining and improving program practices.	No annual goals stated	Limited/generic statement made regarding goal(s), lacks clarity or details	Clear statement made regarding goal(s), includes details	Well-defined statement made regarding goal(s), includes details, reasoning
4. Activities identified that support annual goals; connections made between goals/activities and Retention, Success, Enrollment, and Efficiency data.	No attempt made to identify activities	Limited/generic statement about activities; very limited attempt to connect to data from question 2 (where logical)	Clearly stated activities that support the goal(s); clear connection made to data from question 2 (where logical)	Well-defined activities that logically support the goal(s); definitive connections made to data from question 2 (where logical)
5. The annual goals are linked to the Mission and Educational Master Plan (EMP) of NC.	No link between the annual goals and the Mission or EMP	Limited attempt to link goals to Mission and EMP	Clear attempt to link goals to Mission and EMP	Well defined connection made between goals and Mission and EMP
6. Resource requests have reasons identified and completed data fields, including estimated dollar amount.	No reasons identified and incomplete data fields; or reasons identified, but incomplete or empty data field	Limited/generic/basic reasons provided, data fields completed	Clear requests for resources, all data fields fully completed	Well defined reasons for resources, all data fields fully completed
7. Linkages made between EMP/Strategic Plan Goals (SPG) with reasons for resource requests.	No linkage made between resource requests and EMP/SPG	Limited/generic/basic connection made between resource requests and EMP/SPG	Clear connection made between resource requests and EMP/SPG	Strong connection made between resource requests and EMP/SPG
Column scores				

Additional comments:

II. Norco College - Annual Assessment Update
USE ASSESSMENT DATA FROM fall 2014-spr 15

Purpose –An annual review provides an opportunity for reflection on all that has been accomplished and learned from your efforts in assessment. The annual review is a time to take stock of which courses and programs have undergone some scrutiny, and subsequently should help with planning for the upcoming years. Things we might learn in one cycle of assessment might actually help us to plan assessments in the next cycle, or might facilitate changes in other courses that weren't even included in the initial assessment. To this end, please complete the following with as much detail as possible. If you have any questions, please contact either Sarah Burnett at sarah.burnett@norcocollege.edu, or Greg Aycock at greg.aycock@norcocollege.edu, or talk to your NAC representative.

1. Identify where you are in the cycle of SLO assessment for each course you assessed in _**fall 2014 - spring 2015**_. Each response will be individualized; this means each completed column might look a little different. You may have a course in which you are implementing improvements to close the loop on an initial assessment that was completed in a different year. You might also have a course that only has an initial assessment and you haven't yet completed any follow-up or improvement activities. (Add rows to the chart as needed.)

Course number	SLO **Initial Assessments** Indicate which specific SLOs were assessed in the identified course	Semester assessed	Entered into TracDat fields Yes or No	SLOs with **Changes Made** to course Identify which SLOs for had Changes Made identified, & simple reasoning	Plan for completing identified **Changes** Identify semester & basic plan of action	SLOs not needing Changes (assumed loop-closed) Provide clear reasoning as to why loop closed	SLOs involved in **Loop-Closing** assessment Indicate semester initial assessment was started and semester when loop was closed. Provide rationale for why you consider the assessment loop is closed
ENE-28	SLO 1 Graphically demonstrate an understanding of the concepts of mechanical design.	SPRING 2015	YES	SLO 1 53% in fall 2014 The students had difficulty in dimensioning base on function.	1. For the first six weeks of class up to one hour per class session was spent on function. A short exercise dealing with function was	SLO 1-Results met discipline set standards of 75% success. Even though this SLO surpassed the discipline standard by 3% (78%), I will still be evaluating it	SLO 1 – data indicate increased success after improvements were made. Improvement: 53% in fall 2014 to 78% in spring 2015.

					given each week for the first six weeks.	spring 2016. I feel this will help to keep continuity in this class and will help us continue to improve the percentage and determine if other changes need to be made. SLO 1-Results met discipline set standards of 75% success.	Because the SLO 1 surpassed the discipline set standards, I consider this SLO loop close at this time. However, as I have indicated, in the adjacent column, this will be re-evaluated in spring 2016, with the intent to improve the percentage.
ENE 28	SLO 9 Calculate position tolerance using Geometric Dimension and tolerance.	SPRING 2015	YES	SLO 1 61% in fall 2014 The students had difficulty dimensioning using GD&T tolerancing.	2. For the first six weeks of class up to one hour per class session was spent on tolerancing. A short exercise dealing tolerancing was given each week for the first six weeks.	SLO 9-Results met discipline set standards of 75% success. Even though this SLO met the discipline standard of (75%), I will still be evaluating it spring 2016. I feel this will help to keep continuity in this class and will help us continue to improve the percentage and determine if other changes need to be made.	SLO 9 – data indicate increased success after improvements were made. Improvement: 61% in fall 2014 to 75% in spring 2015. Because the SLO 9 met the discipline set standards, I consider this SLO loop close at this time. However, as I have indicated, in the adjacent column, this will be re-evaluated in spring 2016, with the intent to improve the percentage.
ENE 52	SLO 1 Read and interpret the ANSI Y14.5M	SPRING 2015	YES	SLO 1 87% in fall 2014	No plan of action is needed.	SLO 1 - Results met discipline set standards of 75% success. It was surpassed by 13% (88%).	The SLO 1 surpassed the discipline set standards. Therefore, I consider this SLO loop

	standard for Geometric Dimensioning and Tolerancing (GDT)					close at this time. However, I will be re-evaluating this SLO in spring 2016.

2. a) How many Program Level Outcome **initial** assessments were you involved in **fall 2014 - spring 2015**? Indicate a total number per column. Name the AOE, ADT, GE and/or Certificate program.

To provide you with supportive information for this section, the following GE and AOE assessments were conducted in 2014-15:
Initial assessment for GE PLO Information Competency and Technology Literacy
Closing Loop for GE PLO Self Development and Global Awareness
A Closing the Loop Assessment for AOE in Humanity, Philosophy and The Arts
A Closing the Loop Assessment for AOE in Social and Behavioral Sciences

AOE (Area of Emphasis)	ADT (Associate for Transfer)	GE (General Education)	Certificate

b) How many Program Level Outcome **loop-closing** assessments were you involved in **fall 2014 - spring 2015**? Indicate a total number per column. Name the AOE, ADT, GE and/or Certificate program.

AOE (Area of Emphasis)	ADT (Associate for Transfer)	GE (General Education)	Certificate

3.   Please describe any **Changes** you made in a course or a program in response to an assessment. Reflect on the impact you determine the changes may have had on student learning, student engagement, and/or your teaching. (Add rows as needed)

Course	Changes Made Please click on "Choose an item & select from the drop down menu – content can be modified to suit your needs. Type in "other" approach taken	Impact of changes on student learning, engagement, and/or teaching
ENE-28	Increased in-class activities/exercises/worksheets to practice content	1. For the first six weeks of class up to one hour per class session was spent on function. A short exercise dealing with function was given each week for the first six weeks. Improvement: 53% in fall 2014 to 75% in fall 2014. 2. For the first six weeks of class up to one hour per class session was spent on tolerancing. A short exercise dealing tolerancing was given each week for the first six weeks. Improvement: 61% in fall 2014 to 83% in fall 2014. The students were given a two part exam, drawing and written. The students had to create from sketches design engineering drawings that included dimensioning based on manufacturing and function and answer written questions. SLO 1-Results met discipline set standards of 75% success. Even though this SLO surpassed the discipline standard by 3% (78%), I will still be evaluating it spring 2016. I feel this will help to keep continuity in this class and will help us continue to improve the percentage and determine if other changes need to be made. Because the SLO 1 surpassed the discipline set standards, I consider this SLO

		loop close at this time. Two part exam: a. Drawing project: The students had to create an engineering drawing that included dimensioning based on manufacturing and function. b. Written test: Questions relating to terminology. The results, of the exam, were very revealing as to where the strengths and weaknesses of the students lie. Students performed very well in the use of dimensioning based on manufacturing, placement and choice of view, and identifying the types of conventional dimensions. The results show that the students had a good understanding of these concepts and no changes are planned for this part of the course. Students performed below my expectations when it came to dimensioning using straightness, concentricity and cylindricity based on function using GD&T. The results show that the students did not grasp these concepts and changes to the course need to be implemented to deal with these deficiencies. SLO 9 Results met discipline set standards of 75% success. Even though this SLO met the discipline standard of (78%), I will still be evaluating it spring 2016.
	Choose an item.	
	Choose an item.	
	Choose an item.	

4. Identify any assessments that indicate a modification should be made to the Course Outlines of Record (COR), the Student Learning Outcomes (SLO), or Program Level Outcomes. State the modification.

Identify COR, SLO or PLO to modify	State Suggested Modification	Reasoning
At this time, we feel that our COR, SLO and PLO's are sufficient. We are aware that this is a technology program and changes may need to be implemented in the future. We are open to making changes to the existing COR, SLO and PLO's if such changes are needed.		

5. Have you shared your assessments, outcomes, improvements etc. with your discipline? How? If not, how do you plan to do so in the future? (For a more complete answer, please include any meeting dates, agenda, and/or minutes, emails between faculty members, conversations captured in college, department, or discipline meetings – include these data as an Appendix at the end of this document)

    I have no one to collaborate with when it comes to ENE-28 and ENE-52. I analyzed the data and soon became aware that there was a deficiency in dimensioning using straightness, concentricity and cylindricity using GD&T (Geometrics, Dimension & Tolerancing).

6. Did any of your assessments indicate that your discipline or program would benefit from specific resources in order to support student learning, and/or faculty development? If so, please explain.

    Not at this time.

Resources State the resources identified to support student learning and/or faculty development	Assessment Name the assessment(s) that indicated resources are needed Identify course, SLO & semester	Reasoning Briefly explain what you learned in the assessment that indicates the resource might be beneficial

7. What additional support, training, etc. do you need in the coming year regarding assessment?

None at this time.

Scoring Rubric for Annual Program Review of Assessment (Part II only)

Assessment Unit Name: _____ **Average score** _____

	0	**1**	**2**	**3**	Comments
Initial SLO assessments	No evidence provided 0	Limited evidence of on-going SLO assessment (1 incomplete assessment – Plan but no results) 1	Clear evidence of on-going SLO assessment (1 complete assessment) 2	Clear and robust evidence of on-going SLO assessment (2 or more complete assessments) 3	
Loop Closing Assessments	No evidence provided 0	Limited evidence of Loop-closing assessment (Course identified as "loop-closed", but no Change Plan identified, or reasoning provided) 1	Clear evidence of loop-closing (At least 1 Change Made plan in place, or clear reasoning of "loop closed" for at least 1 initial assessment) 2	Clear and robust evidence of loop-closing (Multiple Change Made Plans in place, or very clear justification for "loop closed" for multiple initial assessments) 3	
Assessment input into TracDAT	No assessments in TracDat format or Repository	Assessment completed are in word/pdf in Document Repository 1	Assessments identified have Assessment Plan, but not all have Results 2	All identified assessments have a complete report (Plan and Results) in TracDat data field) 3	
Attempts to improve student learning	No indication of any changes made to any courses, and no clarification provided 0	No attempts to change any courses, teaching approaches, and **no** clarification or reasoning as to why not 1	Evidence of an attempt to implement a change in a course or teaching approach provided, **or** simple clarifying statement regarding why no specific improvement is needed 2	Multiple attempts made to implement changes to courses or teaching approaches, **or** clear and supported clarification why no improvement is needed 3	
Dialogue across the discipline	No dialogue or attempt to communicate results 0	Limited demonstration of dialogue or communication within the discipline, department, college 1	Clear demonstration of dialogue and sharing of assessment within discipline, department, or college 2	Robust and systematic dialogue and communication demonstrated within discipline, department, or college 3	
Participation in PLO assessment (bonus points averaged into total score)		Engagement in at least 1 initial PLO assessment **and/or** Engagement in at least 1 PLO closing-the-loop assessment fall '14-spr '15 1			
Total for Each Column					