

New Program Proposal
Associate of Applied Science in Engineering Design Technology
Central Carolina Technical College, Greenville Technical College, Piedmont Technical College, and Tri-County Technical College

Summary

Central Carolina Technical College, Greenville Technical College, Piedmont Technical College, and Tri-County Technical College request approval to offer a program leading to the Associate of Applied Science (A.A.S.) in Engineering Design Technology to be implemented in Spring 2017 by Greenville Technical College and Fall 2017 by the other three technical colleges. The proposed program is to be offered through traditional instruction. The following chart outlines the stages of approval for the proposal. The full program proposals are attached.

Stages of Consideration	Date	Comments
Program Proposals Received	8/15/16	Commission staff received Notifications to add the proposed program to the <i>Inventory of Academic Programs</i> .
Comments and suggestions from CHE staff to the SCTCS	8/18/16	Upon review, staff advised the South Carolina Technical College System (SCTCS) representatives that the notification to add a new program, the A.A.S. in Engineering Design Technology, needed transmittal as a proposal for a new program to coincide with policy. As such, the proposals from the institutions would be reviewed by Commission staff and ACAP to determine transferability. Staff also suggested the institutions consider revising the proposed CIP Code from 15.0000 to 15.1301 to more adequately represent the program and minimize potential confusion about the proposed new programs at Piedmont Technical College and Tri-County Technical College, both of which already have a different program under CIP code 15.0000. Staff also requested the start date on the proposal for Piedmont Technical College be revised from Fall 2016 to Spring 2017 or Fall 2017 because neither Commission staff nor ACAP could complete their review of the program prior to the start of the Fall 2016 semester.
Revised Proposals Received	9/8/16	The revised proposal transmittal satisfactorily addressed the requests. The CIP Code was revised to 15.1301 and the implementation date for Piedmont Technical College was revised to Fall 2017.
Electronic Review by ACAP	9/21 - 28/16	Staff requested that ACAP members review the proposals and reply with the number of core courses (i.e., those with the EGR or EGT prefix) that could transfer to four-year institutions and any questions about the program.
ACAP Meeting Discussion	9/29/16	ACAP members discussed the request to consider transferability of the proposed program and requested syllabi and information about faculty credentials to facilitate the review.

Stages of Consideration	Date	Comments
Requested Information Received	10/13/16	The SCTCS provided the following information: syllabi for core courses (those with the EGR or EGT prefix) and information about the credentials of faculty members who would teach the core courses (those with the EGR or EGT prefix).
Commission Staff Consideration	9/8/16 - 10/28/16	Commission staff reviewed course equivalencies and determined that a number of the courses in the proposed program transfer to several four-year institutions, suggesting program transferability.
ACAP Consideration (Electronic Review)	10/28/16 – 11/2/16	<p>Staff asked ACAP members to review the additional information provided by the SCTCS and the program proposals for the four technical colleges and provide a response indicating the potential for transfer to a four-year degree and any substantive questions or concerns about the proposed program.</p> <p>Institutions expressed no objections to the staff’s conclusion, nor raised substantive questions.</p>

Recommendation

The staff recommends that the Committee on Academic Affairs and Licensing approve the program leading to the Associate of Applied Science in Engineering Design Technology to be implemented in Spring 2017 by Greenville Technical College and Fall 2017 by Central Carolina Technical College, Piedmont Technical College, and Tri-County Technical College.

South Carolina Commission on Higher Education
Notification of Change in an Academic Program or Organizational Unit
(One Program per Form)

Name of Institution: Central Carolina Technical College

Current Name of Program (include concentrations, options, specializations, and tracks):

Associate in Applied Science, major in Engineering Design Technology

Curriculum Code: 35307

Proposed Name of Program (include concentrations, options, specializations, and tracks):

n/a

Program Designation: Associate Degree Diploma Certificate

Proposed Date of Implementation: Fall 2017

CIP Code (confirmed by CHE): 151301

Site Code(s) (assigned by CHE): Main Campus

Delivery Mode:

Traditional/face-to-face

*select if less than 50% online

Distance Education

100% online

Blended (more than 50% online)

Other distance education

State the nature of change and provide a summary of the rationale for and objectives of the program. Include the number of credit hours the change entails.

The college would like to implement the Associate in Applied Science with a major in Engineering Design Technology. This will be a new program at the college, effective Fall 2017.

List the courses required for new concentrations, options, specializations, or tracks (prefix, number, title, and credit hours).

See page 5 of the attached program proposal for the curriculum display.

Provide information about courses in major, general education, and electives requirements, and the number of credits required for graduation, if changing.

See page 5 of the attached program proposal for the curriculum display.

For System Office Use Only

Date received at System Office:

Date sent to CHE: 8/15/16

By submitting this form, you acknowledge that the Chief Academic Officer has approved and reviewed all information.

Name of Academic Vice President: Dr. Frederick Cooper

Submitted by: R. Sumpter



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

GENERAL INFORMATION

College Name

Central Carolina Technical College

Associate Degree Diploma

Program Major

Engineering Design Technology

Proposed Date of Implementation

Fall 2017

CIP Code

151301

Delivery Site(s)

Main Campus

Delivery Mode

Traditional/face-to-face*
*select if less than 50% online

Distance Education
 100% online
 Blended (more than 50% online)
 Other distance education

Program Contact Information (name, title, telephone number, and email address)

David C. Tuders (Academic Program Manager)
(803) 778-6678
tudersdc@cctech.edu

Date of Local Area Commission Approval

August 11, 2016 (State Board)

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

MISSION & OBJECTIVES

State the general purpose of the proposed program, including the target audience and centrality to institutional mission. (2000 characters)

Central Carolina Technical College seeks to offer the Associate in Applied Science with a major in Engineering Design Technology. The rationale behind this newly proposed program is due to the changing industry and workforce terminology and name recognition in the community. Employers are increasingly incorporating the words “design” and “drafting” into job descriptions for graduates in this area. An assessment of community colleges across the country found that “drafting and design technology” and “technical design” were commonly used terms to describe their programs.

In addition to changing industry terminology, the current program in engineering graphics technology has little recognition among high school students and their parents. Many high school career center programs do not use the term. Consequently, enrollment among recent high school graduates is declining for this program (current enrollment is comprised primarily of transfer students from other programs).

A switch to Engineering Design Technology better captures the current educational objectives of the program and will be much more recognizable to high school students as they select a program of study and employers seeking to fill entry-level positions.

This curriculum provides an opportunity for students to learn how to communicate successfully in industry teams, enhance the economic well-being of the community through technical expertise, and adapt to new and emerging technologies to keep current with engineering design technology practice.

List the program objectives. Upon completion of the program, graduates will be able to:

- Demonstrate professionalism by working with limited supervision, contributing as part of a diverse team, with a sense of punctuality and timeliness, while respecting the organizational structure with the associated responsibilities.
- Communicate effectively – orally, written, and with computer-based presentation tools.
- Demonstrate the ability to apply basic engineering technology methods and manufacturing processes in order to assist in design and technical solutions.
- Create technical engineering documentation that captures the concept and design intent of a product using manual drafting and/or state-of-the-art CAD technology such that the product can be manufactured.
- Demonstrate competence in problem solving by researching and applying technical information, products, and services required to assist the team in project completion.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

- Conduct off-site and shop floor work in a timely and professional manner, collecting appropriate data for project support, while following the appropriate safety practices that apply.

Provide a succinct statement that clearly articulates what the program prepares graduates to do, e.g. program objectives and/or competencies. (200 characters)

Upon completion of the program, graduates will be able to identify and solve problems in the engineering design technology industry across a wide range of application areas. Graduates will be able to apply state-of-the-art drafting and computer-aided design (CAD) skills to assist in product or equipment design. Additionally, graduates will be able to produce 2-dimensional drawings and/or 3-dimensional models to support the manufacturing process.

ASSESSMENT OF NEED

Discuss the current employment demand for graduates of the proposed program at the national, regional and state levels. Include the occupation, expected number of jobs, employment projection and data source. (2000 characters)

The proposed program provides students with the knowledge and skills necessary to become a design draftsman, tool designer, research assistant, engineering assistant, detailer, or mechanical draftsman. Drafters in South Carolina earned an average annual salary of \$53,500 in 2014 (Occupational Information Network [O*Net], 2016). The national median annual wage for drafters was \$52,720 in May 2015 (U.S. Bureau of Labor Statistics, 2015).

Nationally, employment of drafters is projected to decline three (3) percent from 2014 to 2024 (U.S. Bureau of Labor Statistics, 2015). However, the job outlook for South Carolina is promising in all areas of the profession. Architectural and civil drafters show an increase of 1%, electrical and electronics drafters show an increase of 5% to 8%, and surveying and mapping technicians show an increase of 15% (O*Net, 2016). There are 7,800 national projected job openings through 2024. (O*Net, 2016).

In South Carolina, the growth of the automotive and aerospace sectors, increases the need for high tech manufacturing and engineering jobs which increases the need for CAD Designers. According to the Riley Guide for Career Exploration, South Carolina is expected to see a growth in CAD Designer employment over the next 5 years. According to the Bureau of Labor Statistics (2016), there were 2,270 CAD Designers employed in South Carolina in 2014.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

PROGRAM DESCRIPTION

Total Projected Enrollment Over Three Years (New Students + Transfers, Full and Part-time)				
Year One				
	Fall	Spring	Summer	Total
New Students	30	10	10	50
Transfers	0	0	0	0
Headcount	30	10	10	50
Credit Hours	480	170	90	740
Year Two				
	Fall	Spring	Summer	Total
Continuing Students	24	22	20	66
New Students	30	10	10	50
Transfers	0	0	0	0
Headcount	54	32	30	116
Credit Hours	912	500	270	1682
Year Three				
	Fall	Spring	Summer	Total
Continuing Students	24	22	20	66
New Students	30	10	10	50
Transfers	0	0	0	0
Headcount	54	32	30	116
Credit Hours	912	500	270	1682

What is the projected 150% (3 years) graduation rate? (2000 characters)

The projected graduation rate is approximately 60% or 20 graduates per year.

Will the proposed program seek program-specific accreditation?

Yes

No

If yes, provide the institution's plans to seek accreditation, including the expected timeline for accreditation. (2000 characters)

The accreditation agency for the program is the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). The ABET recognizes that the name of this associate degree program can vary at different institutions across the nation. The ABET Policy & Procedure Manual provide instructions for "Changes During the Period of Accreditation", which includes a provision for a change of the program name. The institutional administrative officer responsible for ABET-accredited programs must notify the ABET Senior Director for Accreditation Operations of changes that potentially impact the extent to which an accredited program satisfies ABET criteria or policies. ABET will review the change and reply back to the institution within 30 days.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Curriculum Display

Curriculum by Year					
Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 1					
Fall		Spring		Summer	
ENG 101: English Composition I	3.0	EGT 115: Engineering Graphics II	4.0	EGT 119: Geometrics	3.0
EGR 130: Engineering Technology Applications and Programming	3.0	EGR 210: Introduction to Engineering CAD	3.0	EGT 127: Descriptive Geometry	3.0
MAT 110: College Algebra	3.0	EGR 175: Manufacturing Processes	3.0	SPC 205: Public Speaking	3.0
EGT 110: Engineering Graphics I	4.0	PHY 201: Physics I	4.0		
Social/Behavioral Science elective	3.0	MAT 111: College Trigonometry	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	16.0		17.0		9.0
Year 2					
Fall		Spring		Summer	
EGT 275: Special Topics in Mapping	3.0	EGT 220: Structural and Piping Applications	4.0		
EGT 210: Engineering Graphics III	4.0	EGR 255: Engineering Technology Senior Systems Project	2.0		
EGT 215: Mechanical Drawing Applications	4.0	EGT 252: Advanced CAD	3.0		
EGR 170: Engineering Materials	3.0	Humanities elective	3.0		
EGR 194: Statics and Strength of Materials	4.0	Technical elective	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	18.0		15.0		

Total Credit Hours Required 75

Course Descriptions for New Courses to be Added to the State Catalog of Approved Courses

Course Name	Description
No new course additions	



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

FACULTY

Total FTE needed to support the proposed program (i.e., the total FTE devoted just to the new program for all faculty, staff, and program administrators):

Faculty	Staff	Administration
1.5	0	0

Faculty /Administrative Personnel Changes

Provide any additional comments on institutional changes in faculty and/or administrative assignment that may result from implementing the proposed program. (2000 characters)

There is one full-time faculty and one part-time faculty who will be dedicated to the program. All faculty are currently employed by the college and there will be no new hires for the proposed program in the first three years of implementation.

LIBRARY & LEARNING RESOURCES

Identify current library/learning collections, resources, and services necessary to support the proposed program and any additional library resources needed. Include additional resources and costs over the next 3 years. (2000 characters)

Existing library resources are sufficient for the proposed program.

STUDENT SUPPORT SERVICES

Identify academic support services needed for the proposed program and any additional estimated costs associated with these services. (2000 characters)

Existing academic support services, including advising and tutoring, are sufficient for the proposed program.

PHYSICAL RESOURCES

Identify any new instructional equipment needed for the proposed program and associated costs. (2000 characters)

Since there are currently similar existing programs at the college, existing equipment is sufficient for the proposed program.



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

Will any extraordinary physical facilities be needed to support the proposed program?

Yes

No

Identify the physical facilities needed to support the program and the institution's plan for meeting the requirements, including new facilities or modifications to existing facilities. (2000 characters)

Existing physical facilities are sufficient to support the proposed program.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

Estimated New Costs by Year				
Category	1 st	2 nd	3 rd	Total
Program Administration	\$0	\$0	\$0	\$0
Faculty and Staff Salaries	\$0	\$0	\$0	\$0
Graduate Assistants	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0
Facilities	\$0	\$0	\$0	\$0
Supplies and Materials	\$0	\$0	\$0	\$0
Library Resources	\$0	\$0	\$0	\$0
Other*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Sources of Financing				
Category	1 st	2 nd	3 rd	Total
Tuition Funding	\$0	\$0	\$0	\$0
Program-Specific Fees	\$0	\$0	\$0	\$0
State Funding (i.e., Special State Appropriation)*	\$0	\$0	\$0	\$0
Reallocation of Existing Funds*	\$0	\$0	\$0	\$0
Federal Funding*	\$0	\$0	\$0	\$0
Other Funding*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Net Total (i.e., Sources of Financing Minus Estimated New Costs)	\$0	\$0	\$0	\$0

*Provide an explanation for these costs and sources of financing in the budget justification.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Budget Justification

Provide a brief explanation for the other new costs and any special sources of financing (state funding, reallocation of existing funds, federal funding, or other funding) identified in the Financial Support table. (2000 characters)

Note: Institutions need to complete this budget justification *only* if any other new costs, state funding, reallocation of existing funds, federal funding, or other funding are included in the Financial Support table.

Since this program will replace an existing program at the college, there are no additional new costs. Financing sources are projected to remain the same.

South Carolina Commission on Higher Education
Notification of Change in an Academic Program or Organizational Unit
(One Program per Form)

Name of Institution: Greenville Technical College

Current Name of Program (include concentrations, options, specializations, and tracks):

Associate in Applied Science, major in Engineering Design Technology

Curriculum Code: 35307

Proposed Name of Program (include concentrations, options, specializations, and tracks):

n/a

Program Designation: Associate Degree Diploma Certificate

Proposed Date of Implementation: Spring 2017

CIP Code (confirmed by CHE): 151301

Site Code(s) (assigned by CHE): Main Campus

Delivery Mode:

Traditional/face-to-face

*select if less than 50% online

Distance Education

100% online

Blended (more than 50% online)

Other distance education

State the nature of change and provide a summary of the rationale for and objectives of the program. Include the number of credit hours the change entails.

The college would like to implement the Associate in Applied Science with a major in Engineering Design Technology. This will be a new program at the college, effective Spring 2017.

List the courses required for new concentrations, options, specializations, or tracks (prefix, number, title, and credit hours).

See page 5 of the attached program proposal for the curriculum display.

Provide information about courses in major, general education, and electives requirements, and the number of credits required for graduation, if changing.

See page 5 of the attached program proposal for the curriculum display.

For System Office Use Only

Date received at System Office:

Date sent to CHE: 8/15/16

By submitting this form, you acknowledge that the Chief Academic Officer has approved and reviewed all information.

Name of Academic Vice President: *Dr. Lenna Young*

Submitted by: *R. Sumpter*



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

GENERAL INFORMATION

College Name

Greenville Technical College

Associate Degree Diploma

Program Major

Engineering Design Technology

Proposed Date of Implementation

Spring 2017

CIP Code

151301

Delivery Site(s)

Main Campus

Delivery Mode

Traditional/face-to-face*
*select if less than 50% online

Distance Education
 100% online
 Blended (more than 50% online)
 Other distance education

Program Contact Information (name, title, telephone number, and email address)

Mike Carey, P.E. – Academic Program Coordinator
864-250-8850 mike.carey@gvltec.edu

Date of Local Area Commission Approval

August 11, 2016 (State Board)

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

MISSION & OBJECTIVES

State the general purpose of the proposed program, including the target audience and centrality to institutional mission. (2000 characters)

Greenville Technical College seeks to offer the Associate in Applied Science with a major in Engineering Design Technology. The rationale behind this newly proposed program is due to the changing industry and workforce terminology and name recognition in the community. Employers are increasingly incorporating the words “design” and “drafting” into job descriptions for graduates in this area. An assessment of community colleges across the country found that “drafting and design technology” and “technical design” were commonly used terms to describe their programs.

In addition to changing industry terminology, the current program in engineering graphics technology has little recognition among high school students and their parents. Many high school career center programs do not use the term. Consequently, enrollment among recent high school graduates is declining for this program (current enrollment is comprised primarily of transfer students from other programs).

A switch to Engineering Design Technology better captures the current educational objectives of the program and will be much more recognizable to high school students as they select a program of study and employers seeking to fill entry-level positions.

This curriculum provides an opportunity for students to learn how to communicate successfully in industry teams, enhance the economic well-being of the community through technical expertise, and adapt to new and emerging technologies to keep current with engineering design technology practice.

List the program objectives. Upon completion of the program, graduates will be able to:

- Demonstrate professionalism by working with limited supervision, contributing as part of a diverse team, with a sense of punctuality and timeliness, while respecting the organizational structure with the associated responsibilities.
- Communicate effectively – orally, written, and with computer-based presentation tools.
- Demonstrate the ability to apply basic engineering technology methods and manufacturing processes in order to assist in design and technical solutions.
- Create technical engineering documentation that captures the concept and design intent of a product using manual drafting and/or state-of-the-art CAD technology such that the product can be manufactured.
- Demonstrate competence in problem solving by researching and applying technical information, products, and services required to assist the team in project completion.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

- Conduct off-site and shop floor work in a timely and professional manner, collecting appropriate data for project support, while following the appropriate safety practices that apply.

Provide a succinct statement that clearly articulates what the program prepares graduates to do, e.g. program objectives and/or competencies. (200 characters)

Upon completion of the program, graduates will be able to identify and solve problems in the engineering design technology industry across a wide range of application areas. Graduates will be able to apply state-of-the-art drafting and computer-aided design (CAD) skills to assist in product or equipment design. Additionally, graduates will be able to produce 2-dimensional drawings and/or 3-dimensional models to support the manufacturing process.

ASSESSMENT OF NEED

Discuss the current employment demand for graduates of the proposed program at the national, regional and state levels. Include the occupation, expected number of jobs, employment projection and data source. (2000 characters)

The proposed program provides students with the knowledge and skills necessary to become a design draftsman, tool designer, research assistant, engineering assistant, detailer, or mechanical draftsman. Drafters in South Carolina earned an average annual salary of \$53,500 in 2014 (Occupational Information Network [O*Net], 2016). The national median annual wage for drafters was \$52,720 in May 2015 (U.S. Bureau of Labor Statistics, 2015).

Nationally, employment of drafters is projected to decline three (3) percent from 2014 to 2024 (U.S. Bureau of Labor Statistics, 2015). However, the job outlook for South Carolina is promising in all areas of the profession. Architectural and civil drafters show an increase of 1%, electrical and electronics drafters show an increase of 5% to 8%, and surveying and mapping technicians show an increase of 15% (O*Net, 2016). There are 7,800 national projected job openings through 2024. (O*Net, 2016).

In South Carolina, the growth of the automotive and aerospace sectors, increases the need for high tech manufacturing and engineering jobs which increases the need for CAD Designers. According to the Riley Guide for Career Exploration, South Carolina is expected to see a growth in CAD Designer employment over the next 5 years. According to the Bureau of Labor Statistics (2016), there were 2,270 CAD Designers employed in South Carolina in 2014.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

PROGRAM DESCRIPTION

Total Projected Enrollment Over Three Years (New Students + Transfers, Full and Part-time)				
Year One				
	Fall	Spring	Summer	Total
New Students	25	15	5	45
Transfers	5	3	1	9
Headcount	30	18	6	54
Credit Hours	480	288	54	822
Year Two				
	Fall	Spring	Summer	Total
Continuing Students	20	12	3	35
New Students	20	10	2	32
Transfers	3	2	1	6
Headcount	43	24	6	73
Credit Hours	688	408	54	1150
Year Three				
	Fall	Spring	Summer	Total
Continuing Students	21	17	5	43
New Students	20	12	2	34
Transfers	3	2	1	6
Headcount	44	31	8	83
Credit Hours	704	527	72	1303

What is the projected 150% (3 years) graduation rate? (2000 characters)

The projected graduation rate is 30%. The college expects 25 graduates over the three-year period.

Will the proposed program seek program-specific accreditation?

Yes

No

If yes, provide the institution's plans to seek accreditation, including the expected timeline for accreditation. (2000 characters)

The accreditation agency for the program is the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). The ABET recognizes that the name of this associate degree program can vary at different institutions across the nation. The ABET Policy & Procedure Manual provide instructions for "Changes During the Period of Accreditation", which includes a provision for a change of the program name. The institutional administrative officer responsible for ABET-accredited programs must notify the ABET Senior Director for Accreditation Operations of changes that potentially impact the extent to which an accredited program satisfies ABET criteria or policies. ABET will review the change and reply back to the institution within 30 days.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Curriculum Display

Curriculum by Year					
Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 1					
Fall		Spring		Summer	
ENG 101: English Composition I	3.0	EGT 115: Engineering Graphics II	4.0	EGT 119: Geometrics	3.0
EGR 130: Engineering Technology Applications and Programming	3.0	EGR 210: Introduction to Engineering CAD	3.0	EGT 127: Descriptive Geometry	3.0
MAT 110: College Algebra	3.0	EGR 175: Manufacturing Processes	3.0	SPC 205: Public Speaking	3.0
EGT 110: Engineering Graphics I	4.0	PHY 201: Physics I	4.0		
Social/Behavioral Science elective	3.0	MAT 111: College Trigonometry	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	16.0		17.0		9.0
Year 2					
Fall		Spring		Summer	
EGT 275: Special Topics in Mapping	3.0	EGT 220: Structural and Piping Applications	4.0		
EGT 210: Engineering Graphics III	4.0	EGR 255: Engineering Technology Senior Systems Project	2.0		
EGT 215: Mechanical Drawing Applications	4.0	EGT 252: Advanced CAD	3.0		
EGR 170: Engineering Materials	3.0	Humanities elective	3.0		
EGR 194: Statics and Strength of Materials	4.0	Technical elective	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	18.0		15.0		

Total Credit Hours Required 75

Course Descriptions for New Courses to be Added to the State Catalog of Approved Courses

Course Name	Description
No new course additions	



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

FACULTY

Total FTE needed to support the proposed program (i.e., the total FTE devoted just to the new program for all faculty, staff, and program administrators):

Faculty	Staff	Administration
4	0	0

Faculty /Administrative Personnel Changes

Provide any additional comments on institutional changes in faculty and/or administrative assignment that may result from implementing the proposed program. (2000 characters)

There are two full-time faculty and 4 part-time faculty who will be dedicated to the program. All faculty are currently employed by the college and there will be no new hires for the proposed program in the first three years of implementation.

LIBRARY & LEARNING RESOURCES

Identify current library/learning collections, resources, and services necessary to support the proposed program and any additional library resources needed. Include additional resources and costs over the next 3 years. (2000 characters)

Existing library resources are sufficient for the proposed program.

STUDENT SUPPORT SERVICES

Identify academic support services needed for the proposed program and any additional estimated costs associated with these services. (2000 characters)

Existing academic support services, including advising and tutoring, are sufficient for the proposed program.

PHYSICAL RESOURCES

Identify any new instructional equipment needed for the proposed program and associated costs. (2000 characters)

Since there are currently similar existing programs at the college, existing equipment is sufficient for the proposed program.



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

Will any extraordinary physical facilities be needed to support the proposed program?

Yes

No

Identify the physical facilities needed to support the program and the institution's plan for meeting the requirements, including new facilities or modifications to existing facilities. (2000 characters)

Existing physical facilities are sufficient to support the proposed program.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

Estimated New Costs by Year				
Category	1 st	2 nd	3 rd	Total
Program Administration	\$0	\$0	\$0	\$0
Faculty and Staff Salaries	\$0	\$0	\$0	\$0
Graduate Assistants	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0
Facilities	\$0	\$0	\$0	\$0
Supplies and Materials	\$0	\$0	\$0	\$0
Library Resources	\$0	\$0	\$0	\$0
Other*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Sources of Financing				
Category	1 st	2 nd	3 rd	Total
Tuition Funding	\$146,118	\$204,115	\$231,292	\$581,525
Program-Specific Fees	\$5,246	\$7,113	\$7,982	\$20,341
State Funding (i.e., Special State Appropriation)*	\$0	\$0	\$0	\$0
Reallocation of Existing Funds*	\$0	\$0	\$0	\$0
Federal Funding*	\$0	\$0	\$0	\$0
Other Funding*	\$0	\$0	\$0	\$0
Total	\$151,364	\$211,228	\$239,274	\$601,866
Net Total (i.e., Sources of Financing Minus Estimated New Costs)	\$151,364	\$211,228	\$239,274	\$601,866

*Provide an explanation for these costs and sources of financing in the budget justification.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Budget Justification

Provide a brief explanation for the other new costs and any special sources of financing (state funding, reallocation of existing funds, federal funding, or other funding) identified in the Financial Support table. (2000 characters)

Note: Institutions need to complete this budget justification *only* if any other new costs, state funding, reallocation of existing funds, federal funding, or other funding are included in the Financial Support table.

Since this program will replace an existing program at the college, there are no additional new costs.

South Carolina Commission on Higher Education
Notification of Change in an Academic Program or Organizational Unit
(One Program per Form)

Name of Institution: Piedmont Technical College

Current Name of Program (include concentrations, options, specializations, and tracks):

Associate in Applied Science, major in Engineering Design Technology

Curriculum Code: 35307

Proposed Name of Program (include concentrations, options, specializations, and tracks):

n/a

Program Designation: Associate Degree Diploma Certificate

Proposed Date of Implementation: Fall 2017

CIP Code (confirmed by CHE): 151301

Site Code(s) (assigned by CHE): Main Campus

Delivery Mode:

Traditional/face-to-face

*select if less than 50% online

Distance Education

100% online

Blended (more than 50% online)

Other distance education

State the nature of change and provide a summary of the rationale for and objectives of the program. Include the number of credit hours the change entails.

The college would like to implement the Associate in Applied Science with a major in Engineering Design Technology. This will be a new program at the college, effective Fall 2017.

List the courses required for new concentrations, options, specializations, or tracks (prefix, number, title, and credit hours).

See page 5 of the attached program proposal for the curriculum display.

Provide information about courses in major, general education, and electives requirements, and the number of credits required for graduation, if changing.

See page 5 of the attached program proposal for the curriculum display.

For System Office Use Only

Date received at System Office:

Date sent to CHE: 8/15/16

By submitting this form, you acknowledge that the Chief Academic Officer has approved and reviewed all information.

Name of Academic Vice President: *Dr. Jack Bagwell*

Submitted by: *R. Sumpter*



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

GENERAL INFORMATION

College Name

Piedmont Technical College

Associate Degree Diploma

Program Major

Engineering Design Technology

Proposed Date of Implementation

Fall 2017

CIP Code

151301

Delivery Site(s)

Main Campus

Delivery Mode

- Traditional/face-to-face*
*select if less than 50% online
- Distance Education
 - 100% online
 - Blended (more than 50% online)
 - Other distance education

Program Contact Information (name, title, telephone number, and email address)

Christina Knight		Sandy Warner
EGT Instructor	or	Department Head of Engineering Technologies
864-941-8483		864-941-8466
Knight.c@ptc.edu		warner.s@ptc.edu

Date of Local Area Commission Approval

August 11, 2016 (State Board)

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

MISSION & OBJECTIVES

State the general purpose of the proposed program, including the target audience and centrality to institutional mission. (2000 characters)

Piedmont Technical College seeks to offer the Associate in Applied Science with a major in Engineering Design Technology. The rationale behind this newly proposed program is due to the changing industry and workforce terminology and name recognition in the community. Employers are increasingly incorporating the words “design” and “drafting” into job descriptions for graduates in this area. An assessment of community colleges across the country found that “drafting and design technology” and “technical design” were commonly used terms to describe their programs.

In addition to changing industry terminology, the current program in engineering graphics technology has little recognition among high school students and their parents. Many high school career center programs do not use the term. Consequently, enrollment among recent high school graduates is declining for this program (current enrollment is comprised primarily of transfer students from other programs).

A switch to Engineering Design Technology better captures the current educational objectives of the program and will be much more recognizable to high school students as they select a program of study and employers seeking to fill entry-level positions.

This curriculum provides an opportunity for students to learn how to communicate successfully in industry teams, enhance the economic well-being of the community through technical expertise, and adapt to new and emerging technologies to keep current with engineering design technology practice.

List the program objectives. Upon completion of the program, graduates will be able to:

- Demonstrate professionalism by working with limited supervision, contributing as part of a diverse team, with a sense of punctuality and timeliness, while respecting the organizational structure with the associated responsibilities.
- Communicate effectively – orally, written, and with computer-based presentation tools.
- Demonstrate the ability to apply basic engineering technology methods and manufacturing processes in order to assist in design and technical solutions.
- Create technical engineering documentation that captures the concept and design intent of a product using manual drafting and/or state-of-the-art CAD technology such that the product can be manufactured.
- Demonstrate competence in problem solving by researching and applying technical information, products, and services required to assist the team in project completion.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

- Conduct off-site and shop floor work in a timely and professional manner, collecting appropriate data for project support, while following the appropriate safety practices that apply.

Provide a succinct statement that clearly articulates what the program prepares graduates to do, e.g. program objectives and/or competencies. (200 characters)

Upon completion of the program, graduates will be able to identify and solve problems in the engineering design technology industry across a wide range of application areas. Graduates will be able to apply state-of-the-art drafting and computer-aided design (CAD) skills to assist in product or equipment design. Additionally, graduates will be able to produce 2-dimensional drawings and/or 3-dimensional models to support the manufacturing process.

ASSESSMENT OF NEED

Discuss the current employment demand for graduates of the proposed program at the national, regional and state levels. Include the occupation, expected number of jobs, employment projection and data source. (2000 characters)

The proposed program provides students with the knowledge and skills necessary to become a design draftsman, tool designer, research assistant, engineering assistant, detailer, or mechanical draftsman. Drafters in South Carolina earned an average annual salary of \$53,500 in 2014 (Occupational Information Network [O*Net], 2016). The national median annual wage for drafters was \$52,720 in May 2015 (U.S. Bureau of Labor Statistics, 2015).

Nationally, employment of drafters is projected to decline three (3) percent from 2014 to 2024 (U.S. Bureau of Labor Statistics, 2015). However, the job outlook for South Carolina is promising in all areas of the profession. Architectural and civil drafters show an increase of 1%, electrical and electronics drafters show an increase of 5% to 8%, and surveying and mapping technicians show an increase of 15% (O*Net, 2016). There are 7,800 national projected job openings through 2024. (O*Net, 2016).

In South Carolina, the growth of the automotive and aerospace sectors, increases the need for high tech manufacturing and engineering jobs which increases the need for CAD Designers. According to the Riley Guide for Career Exploration, South Carolina is expected to see a growth in CAD Designer employment over the next 5 years. According to the Bureau of Labor Statistics (2016), there were 2,270 CAD Designers employed in South Carolina in 2014.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

PROGRAM DESCRIPTION

Total Projected Enrollment Over Three Years (New Students + Transfers, Full and Part-time)				
Year One				
	Fall	Spring	Summer	Total
New Students	20	10	5	35
Transfers	5	2	1	8
Headcount	25	12	6	43
Credit Hours	400	192	96	688
Year Two				
	Fall	Spring	Summer	Total
Continuing Students	33	30	28	28
New Students	21	11	6	38
Transfers	6	2	0	8
Headcount	60	43	34	138
Credit Hours	993	615	442	2049
Year Three				
	Fall	Spring	Summer	Total
Continuing Students	56	50	45	45
New Students	25	15	8	48
Transfers	6	4	0	10
Headcount	87	69	53	209
Credit Hours	1448	985	689	3122

What is the projected 150% (3 years) graduation rate? (2000 characters)

The projected graduation rate is 28.57% based on existing similar programs at the college.

Will the proposed program seek program-specific accreditation?

Yes

No

If yes, provide the institution's plans to seek accreditation, including the expected timeline for accreditation. (2000 characters)

The accreditation agency for the program is the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). The ABET recognizes that the name of this associate degree program can vary at different institutions across the nation. The ABET Policy & Procedure Manual provide instructions for "Changes During the Period of Accreditation", which includes a provision for a change of the program name. The institutional administrative officer responsible for ABET-accredited programs must notify the ABET Senior Director for Accreditation Operations of changes that potentially impact the extent to which an accredited program satisfies ABET criteria or policies. ABET will review the change and reply back to the institution within 30 days.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Curriculum Display

Curriculum by Year					
Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 1					
Fall		Spring		Summer	
ENG 101: English Composition I	3.0	EGT 115: Engineering Graphics II	4.0	EGT 119: Geometrics	3.0
EGR 130: Engineering Technology Applications and Programming	3.0	EGR 210: Introduction to Engineering CAD	3.0	EGT 127: Descriptive Geometry	3.0
MAT 110: College Algebra	3.0	EGR 175: Manufacturing Processes	3.0	SPC 205: Public Speaking	3.0
EGT 110: Engineering Graphics I	4.0	PHY 201: Physics I	4.0		
Social/Behavioral Science elective	3.0	MAT 111: College Trigonometry	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	16.0		17.0		9.0
Year 2					
Fall		Spring		Summer	
EGT 275: Special Topics in Mapping	3.0	EGT 220: Structural and Piping Applications	4.0		
EGT 210: Engineering Graphics III	4.0	EGR 255: Engineering Technology Senior Systems Project	2.0		
EGT 215: Mechanical Drawing Applications	4.0	EGT 252: Advanced CAD	3.0		
EGR 170: Engineering Materials	3.0	Humanities elective	3.0		
EGR 194: Statics and Strength of Materials	4.0	Technical elective	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	18.0		15.0		

Total Credit Hours Required 75

Course Descriptions for New Courses to be Added to the State Catalog of Approved Courses

Course Name	Description
No new course additions	



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

FACULTY

Total FTE needed to support the proposed program (i.e., the total FTE devoted just to the new program for all faculty, staff, and program administrators):

Faculty	Staff	Administration
1.5	0	0

Faculty /Administrative Personnel Changes

Provide any additional comments on institutional changes in faculty and/or administrative assignment that may result from implementing the proposed program. (2000 characters)

There is one full-time faculty and one part-time faculty who will be dedicated to the program. All faculty are currently employed by the college and there will be no new hires for the proposed program in the first three years of implementation.

LIBRARY & LEARNING RESOURCES

Identify current library/learning collections, resources, and services necessary to support the proposed program and any additional library resources needed. Include additional resources and costs over the next 3 years. (2000 characters)

Existing library resources are sufficient for the proposed program.

STUDENT SUPPORT SERVICES

Identify academic support services needed for the proposed program and any additional estimated costs associated with these services. (2000 characters)

Existing academic support services, including advising and tutoring, are sufficient for the proposed program.

PHYSICAL RESOURCES

Identify any new instructional equipment needed for the proposed program and associated costs. (2000 characters)

Since there are currently similar existing programs at the college, existing equipment is sufficient for the proposed program.



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

Will any extraordinary physical facilities be needed to support the proposed program?

Yes

No

Identify the physical facilities needed to support the program and the institution's plan for meeting the requirements, including new facilities or modifications to existing facilities. (2000 characters)

Existing physical facilities are sufficient to support the proposed program.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

Estimated New Costs by Year				
Category	1 st	2 nd	3 rd	Total
Program Administration	\$0	\$0	\$0	\$0
Faculty and Staff Salaries	\$0	\$0	\$0	\$0
Graduate Assistants	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0
Facilities	\$0	\$0	\$0	\$0
Supplies and Materials	\$0	\$0	\$0	\$0
Library Resources	\$0	\$0	\$0	\$0
Other*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Sources of Financing				
Category	1 st	2 nd	3 rd	Total
Tuition Funding	\$0	\$0	\$0	\$0
Program-Specific Fees	\$0	\$0	\$0	\$0
State Funding (i.e., Special State Appropriation)*	\$0	\$0	\$0	\$0
Reallocation of Existing Funds*	\$0	\$0	\$0	\$0
Federal Funding*	\$0	\$0	\$0	\$0
Other Funding*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Net Total (i.e., Sources of Financing Minus Estimated New Costs)	\$0	\$0	\$0	\$0

*Provide an explanation for these costs and sources of financing in the budget justification.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Budget Justification

Provide a brief explanation for the other new costs and any special sources of financing (state funding, reallocation of existing funds, federal funding, or other funding) identified in the Financial Support table. (2000 characters)

Note: Institutions need to complete this budget justification *only* if any other new costs, state funding, reallocation of existing funds, federal funding, or other funding are included in the Financial Support table.

Since this program will replace an existing program at the college, there are no additional new costs. Financing sources are projected to remain the same.

South Carolina Commission on Higher Education
Notification of Change in an Academic Program or Organizational Unit
(One Program per Form)

Name of Institution: Tri-County Technical College

Current Name of Program (include concentrations, options, specializations, and tracks):

Associate in Applied Science, major in Engineering Design Technology

Curriculum Code: 35307

Proposed Name of Program (include concentrations, options, specializations, and tracks):

n/a

Program Designation: Associate Degree Diploma Certificate

Proposed Date of Implementation: Fall 2017

CIP Code (confirmed by CHE): 151301

Site Code(s) (assigned by CHE): Main Campus

Delivery Mode:

Traditional/face-to-face

*select if less than 50% online

Distance Education

100% online

Blended (more than 50% online)

Other distance education

State the nature of change and provide a summary of the rationale for and objectives of the program. Include the number of credit hours the change entails.

The college would like to implement the Associate in Applied Science with a major in Engineering Design Technology. This will be a new program at the college, effective Fall 2017.

List the courses required for new concentrations, options, specializations, or tracks (prefix, number, title, and credit hours).

See page 5 of the attached program proposal for the curriculum display.

Provide information about courses in major, general education, and electives requirements, and the number of credits required for graduation, if changing.

See page 5 of the attached program proposal for the curriculum display.

For System Office Use Only

Date received at System Office:

Date sent to CHE: 8/15/16

By submitting this form, you acknowledge that the Chief Academic Officer has approved and reviewed all information.

Name of Academic Vice President: Mr. Galen DeHay

Submitted by: R. Sumpter



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

GENERAL INFORMATION

College Name

Tri-County Technical College

Associate Degree Diploma

Program Major

Engineering Design Technology

Proposed Date of Implementation

Fall 2017

CIP Code

151301

Delivery Site(s)

Main Campus

Delivery Mode

Traditional/face-to-face*
*select if less than 50% online

Distance Education
 100% online
 Blended (more than 50% online)
 Other distance education

Program Contact Information (name, title, telephone number, and email address)

Roger Burgess, Program Director
864.646.1416, rburges2@tctc.edu

Date of Local Area Commission Approval

August 11, 2016 (State Board)



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

MISSION & OBJECTIVES

State the general purpose of the proposed program, including the target audience and centrality to institutional mission. (2000 characters)

Tri-County Technical College seeks to offer the Associate in Applied Science with a major in Engineering Design Technology. The rationale behind this newly proposed program is due to the changing industry and workforce terminology and name recognition in the community. Employers are increasingly incorporating the words “design” and “drafting” into job descriptions for graduates in this area. An assessment of community colleges across the country found that “drafting and design technology” and “technical design” were commonly used terms to describe their programs.

In addition to changing industry terminology, the current program in engineering graphics technology has little recognition among high school students and their parents. Many high school career center programs do not use the term. Consequently, enrollment among recent high school graduates is declining for this program (current enrollment is comprised primarily of transfer students from other programs).

A switch to Engineering Design Technology better captures the current educational objectives of the program and will be much more recognizable to high school students as they select a program of study and employers seeking to fill entry-level positions.

This curriculum provides an opportunity for students to learn how to communicate successfully in industry teams, enhance the economic well-being of the community through technical expertise, and adapt to new and emerging technologies to keep current with engineering design technology practice.

List the program objectives. Upon completion of the program, graduates will be able to:

- Demonstrate professionalism by working with limited supervision, contributing as part of a diverse team, with a sense of punctuality and timeliness, while respecting the organizational structure with the associated responsibilities.
- Communicate effectively – orally, written, and with computer-based presentation tools.
- Demonstrate the ability to apply basic engineering technology methods and manufacturing processes in order to assist in design and technical solutions.
- Create technical engineering documentation that captures the concept and design intent of a product using manual drafting and/or state-of-the-art CAD technology such that the product can be manufactured.
- Demonstrate competence in problem solving by researching and applying technical information, products, and services required to assist the team in project completion.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

- Conduct off-site and shop floor work in a timely and professional manner, collecting appropriate data for project support, while following the appropriate safety practices that apply.

Provide a succinct statement that clearly articulates what the program prepares graduates to do, e.g. program objectives and/or competencies. (200 characters)

Upon completion of the program, graduates will be able to identify and solve problems in the engineering design technology industry across a wide range of application areas. Graduates will be able to apply state-of-the-art drafting and computer-aided design (CAD) skills to assist in product or equipment design. Additionally, graduates will be able to produce 2-dimensional drawings and/or 3-dimensional models to support the manufacturing process.

ASSESSMENT OF NEED

Discuss the current employment demand for graduates of the proposed program at the national, regional and state levels. Include the occupation, expected number of jobs, employment projection and data source. (2000 characters)

The proposed program provides students with the knowledge and skills necessary to become a design draftsman, tool designer, research assistant, engineering assistant, detailer, or mechanical draftsman. Drafters in South Carolina earned an average annual salary of \$53,500 in 2014 (Occupational Information Network [O*Net], 2016). The national median annual wage for drafters was \$52,720 in May 2015 (U.S. Bureau of Labor Statistics, 2015).

Nationally, employment of drafters is projected to decline three (3) percent from 2014 to 2024 (U.S. Bureau of Labor Statistics, 2015). However, the job outlook for South Carolina is promising in all areas of the profession. Architectural and civil drafters show an increase of 1%, electrical and electronics drafters show an increase of 5% to 8%, and surveying and mapping technicians show an increase of 15% (O*Net, 2016). There are 7,800 national projected job openings through 2024. (O*Net, 2016).

In South Carolina, the growth of the automotive and aerospace sectors, increases the need for high tech manufacturing and engineering jobs which increases the need for CAD Designers. According to the Riley Guide for Career Exploration, South Carolina is expected to see a growth in CAD Designer employment over the next 5 years. According to the Bureau of Labor Statistics (2016), there were 2,270 CAD Designers employed in South Carolina in 2014.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

PROGRAM DESCRIPTION

Total Projected Enrollment Over Three Years (New Students + Transfers, Full and Part-time)				
Year One				
	Fall	Spring	Summer	Total
New Students	9	0	2	11
Transfers	0	2	0	2
Headcount	9	11	13	13
Credit Hours	126	154	182	462
Year Two				
	Fall	Spring	Summer	Total
Continuing Students	9	20	8	37
New Students	11	4	2	17
Transfers	0	2	0	2
Headcount	20	26	10	56
Credit Hours	280	364	140	784
Year Three				
	Fall	Spring	Summer	Total
Continuing Students	4	16	10	30
New Students	12	6	2	20
Transfers	0	2	0	2
Headcount	16	24	12	52
Credit Hours	224	336	168	728

What is the projected 150% (3 years) graduation rate? (2000 characters)

The projected graduation rate is approximately 45% or 4 graduates per year.

Will the proposed program seek program-specific accreditation?

Yes

No

If yes, provide the institution's plans to seek accreditation, including the expected timeline for accreditation. (2000 characters)

The accreditation agency for the program is the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). The ABET recognizes that the name of this associate degree program can vary at different institutions across the nation. The ABET Policy & Procedure Manual provide instructions for "Changes During the Period of Accreditation", which includes a provision for a change of the program name. The institutional administrative officer responsible for ABET-accredited programs must notify the ABET Senior Director for Accreditation Operations of changes that potentially impact the extent to which an accredited program satisfies ABET criteria or policies. ABET will review the change and reply back to the institution within 30 days.

NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Curriculum Display

Curriculum by Year					
Course Name	Credit Hours	Course Name	Credit Hours	Course Name	Credit Hours
Year 1					
Fall		Spring		Summer	
ENG 101: English Composition I	3.0	EGT 115: Engineering Graphics II	4.0	EGT 119: Geometrics	3.0
EGR 130: Engineering Technology Applications and Programming	3.0	EGR 210: Introduction to Engineering CAD	3.0	EGT 127: Descriptive Geometry	3.0
MAT 110: College Algebra	3.0	EGR 175: Manufacturing Processes	3.0	SPC 205: Public Speaking	3.0
EGT 110: Engineering Graphics I	4.0	PHY 201: Physics I	4.0		
Social/Behavioral Science elective	3.0	MAT 111: College Trigonometry	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	16.0		17.0		9.0
Year 2					
Fall		Spring		Summer	
EGT 275: Special Topics in Mapping	3.0	EGT 220: Structural and Piping Applications	4.0		
EGT 210: Engineering Graphics III	4.0	EGR 255: Engineering Technology Senior Systems Project	2.0		
EGT 215: Mechanical Drawing Applications	4.0	EGT 252: Advanced CAD	3.0		
EGR 170: Engineering Materials	3.0	Humanities elective	3.0		
EGR 194: Statics and Strength of Materials	4.0	Technical elective	3.0		
Total Semester Hours		Total Semester Hours		Total Semester Hours	
	18.0		15.0		

Total Credit Hours Required 75

Course Descriptions for New Courses to be Added to the State Catalog of Approved Courses

Course Name	Description
No new course additions	



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

FACULTY

Total FTE needed to support the proposed program (i.e., the total FTE devoted just to the new program for all faculty, staff, and program administrators):

Faculty	Staff	Administration
3.5	0	0

Faculty /Administrative Personnel Changes

Provide any additional comments on institutional changes in faculty and/or administrative assignment that may result from implementing the proposed program. (2000 characters)

There are two full-time faculty and three part-time faculty who will be dedicated to the program. All faculty are currently employed by the college and there will be no new hires for the proposed program in the first three years of implementation.

LIBRARY & LEARNING RESOURCES

Identify current library/learning collections, resources, and services necessary to support the proposed program and any additional library resources needed. Include additional resources and costs over the next 3 years. (2000 characters)

Existing library resources are sufficient for the proposed program.

STUDENT SUPPORT SERVICES

Identify academic support services needed for the proposed program and any additional estimated costs associated with these services. (2000 characters)

Existing academic support services, including advising and tutoring, are sufficient for the proposed program.

PHYSICAL RESOURCES

Identify any new instructional equipment needed for the proposed program and associated costs. (2000 characters)

Since there are currently similar existing programs at the college, existing equipment is sufficient for the proposed program.



**NEW PROGRAM PROPOSAL SUBMISSION FORM
For Program Models Not Designed for Transfer**

Will any extraordinary physical facilities be needed to support the proposed program?

Yes

No

Identify the physical facilities needed to support the program and the institution's plan for meeting the requirements, including new facilities or modifications to existing facilities. (2000 characters)

Existing physical facilities are sufficient to support the proposed program.

NEW PROGRAM PROPOSAL SUBMISSION FORM

For Program Models Not Designed for Transfer

Estimated New Costs by Year				
Category	1 st	2 nd	3 rd	Total
Program Administration	\$0	\$0	\$0	\$0
Faculty and Staff Salaries	\$0	\$0	\$0	\$0
Graduate Assistants	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0
Facilities	\$0	\$0	\$0	\$0
Supplies and Materials	\$0	\$0	\$0	\$0
Library Resources	\$0	\$0	\$0	\$0
Other*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Sources of Financing				
Category	1 st	2 nd	3 rd	Total
Tuition Funding	\$0	\$0	\$0	\$0
Program-Specific Fees	\$0	\$0	\$0	\$0
State Funding (i.e., Special State Appropriation)*	\$0	\$0	\$0	\$0
Reallocation of Existing Funds*	\$0	\$0	\$0	\$0
Federal Funding*	\$0	\$0	\$0	\$0
Other Funding*	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0
Net Total (i.e., Sources of Financing Minus Estimated New Costs)	\$0	\$0	\$0	\$0

*Provide an explanation for these costs and sources of financing in the budget justification.



NEW PROGRAM PROPOSAL SUBMISSION FORM For Program Models Not Designed for Transfer

Budget Justification

Provide a brief explanation for the other new costs and any special sources of financing (state funding, reallocation of existing funds, federal funding, or other funding) identified in the Financial Support table. (2000 characters)

Note: Institutions need to complete this budget justification *only* if any other new costs, state funding, reallocation of existing funds, federal funding, or other funding are included in the Financial Support table.

Since this program will replace an existing program at the college, there are no additional new costs and financing sources are projected to remain the same.