

Butte College

Certificate of Achievement

Engineering Support Technician

1. Statement of Program Goals and Objectives

This certificate is designed to assist students who want to learn necessary skills that are used in the engineering and manufacturing industries at the middle-skill technical technician level (Engineering Support Technician). Along with a STEM-based certificate, this certificate of achievement will provide the student with hands-on skill development needed to be successful in a variety of areas in the form of a core course work, built-in internship with area industry partners and prepared to certify in industry-recognized certification.

Upon successful completion of the program, students will be able to:

- Utilize software to analyze, sort, and record data.
- Interpret technical drawings.
- Apply programming concepts.
- Apply concepts of networking and create a basic network.
- Apply mathematical and physical science concepts and apply those in a problem-solving format.
- Apply skills acquired in specific areas of mechanical, electrical, and pneumatic and hydraulic training.
- Complete industry certifications.
- Translate acquired skills through education, training, and internship to an employment opportunity as an engineering support technician.

2. Catalog Description

The Certificate of Achievement, Engineering Support Technician offers a series of courses including foundational knowledge needed for an entry level engineering support technician. The program includes a built-in internship which allows the student to obtain hands-on experience in process manufacturing industries. Students will also be prepared to take an industry recognized certification exam.

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Engineering Support Technician

3. Program Requirements

Requirements	Course	Title	Units	Sequence
Required	BCIS-85	Microsoft Excel for Windows	3	Yr 1 – Fall
Required	CSCI-4	Introduction to Programming Concepts and Methodologies	3	Yr 1 - Fall
Required	CSCI-19	Computer Networking Fundamentals	3	Yr 1 - Fall
Required	DFT-16	Print Reading for Industry and Manufacturing	3	Yr 1 - Spring
Required	ENGR-99	Work Experience-ENGR	6	Yr 1 – Spring
Required	ITEC-55	Introduction to Industrial Trades	2	Yr 1 Fall
Required	MATH-20 or MATH 28 or MATH 28s or MATH 30 or MATH 30s	Trigonometry Precalculus Precalculus with Support Analytic Geometry and Calculus I Analytic Geometry and Calculus I with Support	3 4 4 5 5	Yr 1 – Fall
Required	PHYS 21 or PHYS-41	College Physics I Physics for Scientists and Engineers I	4 4	Yr-1 - Spring

Required Major Total: 27 - 29 units
TOTAL UNITS: 27 - 29 units

Proposed Sequence: See above.

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4. Master Planning

The Engineering Support Technician (also known as SwifTECH) certificate will establish a new career pathway for students at Butte College in emerging and high demand industries. This program will prepare a new mid-level technically qualified worker, an Engineering Support Technician (EST). These EST's will replace the aging maintenance support workforce including millwrights who are retiring at a rate exceeding the rate of succession. The EST program will be a combination of Butte College courses and a hands-on internship experience in a real-time industrial employer with an outcome of a certificate of achievement granted by the College and preparation to take industry recognized certifications from nationally recognized Manufacturing Skills Standards Council. SwifTECH will develop the first EST workforce program in Northern California that will provide technician education through an accessible, affordable, efficient pathway for students to become qualified, successful EST's.

The focus of SwifTECH is the regional food and beverage processing employers. Today's food and beverage processing supply chain industries demand a mid-level technical workforce with qualified knowledge, skills and abilities in mechatronics including mechanical, electrical and fluid technologies. Many of these technologies are automated, incorporating a need for skills in automation including sensor technologies, programmable logic controllers (PLC) and data transmission and incorporation in enterprise resource planning (ERP) systems in high intensity supply chain fulfillment. Such technologies streamline and automate repetitive enterprise operations that must be maintained and refined after installation to assure an effective economic value to their companies and product value in the marketplace. The employers of EST's in today's industrial world do not demand physical strength but technical knowledge. This knowledge allows workflow to be automated, reduces business costs, and provides additional time for technicians to perform more important and complex work.

This certification aligns with the College's Guided Pathways model which allows students to select into different pathways based upon preference. One group of students who may be interested in this certificate are declared engineering students who either do not have the time or desire to complete the four-year bachelor's degree program. This certificate allows those students to be prepared for gainful employment in an engineering adjacent field. This certificate also allows incumbent workers to "scale up" in their education and provide for advancement within their respective companies.

The certificate is grant funded, and therefore, there are no costs associated to the District. Faculty time for developing the program, costs of equipment and training of faculty are all supported by the grant.

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Local employers in the previously mentioned industries have closely worked with the grant Principle Investigators to develop the internship component of the certificate. Students will be hosted at the employer’s facility for a certain number of agreed upon hours to gain the hands-on experience. See more detail in the submitted Letters of Commitment from the industry partners.

5. Enrollment and Completer Projections

CB01: Course Department Number	CB02: Course Title	2022-2023		2023-2024	
		Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
BCIS-85	Microsoft Excel for Windows	1	30	1	30
CSCI-4	Introduction to Programming Concepts and Methodologies	6	144	7	168
CSCI-19	Computer Networking Fundamentals			1	24
DFT-16	Print Reading for Industry and Manufacturing	1	35	1	35
ENGR-99	Work Experience-ENGR				
ITEC-55	Introduction to Industrial Trades	1	20	2	40
MATH-20	Trigonometry	6	210	6	210
MATH-28	Precalculus		New Course		New Course
MATH-28s	Precalculus with Support		New Course		New Course
MATH-30	Analytic Geometry and Calculus I	10	326	11	339
MATH-30s	Analytic Geometry and Calculus I with Support		New Course		New Course
PHYS 21	College Physics I	4	96	4	96
PHYS-41	Physics for Scientists and Engineers I	4	84	6	144

It is anticipated that we will have 20 completers per year.

6. Place of Program in Curriculum/Similar Programs

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The Certificate of Achievement, Engineering Support Technician will be housed under the existing engineering department.

7. Similar Programs at Other Colleges in Service Area

There are no other similar programs in the service area.

ADDITIONAL SUPPORTING DOCUMENTATION – CTE

Application for Certificate of Achievement (CA)

Complete sections A, B, and C – Submit to Heather Rau in SAS-214 after librarian, chair and dean signatures are obtained. New certificates of achievement require approval of 2 curriculum meetings, board, and Chancellor's office before they can be published in the catalog and advertised to students.

A. Data section

Program Title: Certificate of Achievement in Theatre Arts

Enter the exact title that is proposed for the catalog. The title must clearly and accurately reflect the scope and level of the program.

Department offering the certificate of achievement: Performing Arts - Drama

Submitted by: Ryan Heimlich **Date:** 10/9/2024

Program Goal: Career Technical Education Local

TOP Code: 1007.00

TOP code should reflect the main subject matter (or majority of required certificate courses). Reference Taxonomy of Programs (TOP) code manual on the curriculum website (vocational TOP codes are denoted by asterisk ()).*

Annual Completers: 5

Enter the number of students projected to be awarded the certificate each year after the program is fully established.

Net Annual Labor Demand (CTE):

Enter the estimated number of annual job openings, minus the annual number of program completers of other programs within the counties in the college service areas. The number entered here must be explicitly stated and consistent with the Labor Market Information and Analysis provided as Supporting Documentation. Must be greater than zero.

Faculty Workload: 1

Enter the number of full-time equivalent faculty that will be dedicated to teaching in the certificate during the first full year of operation, regardless of whether they are new or existing faculty List as decimal.

New Faculty Positions: 0

Enter the number of new faculty positions, both part- and full-time. If existing faculty are sufficient, enter zero (0).

New Equipment: 0

If new equipment will be acquired for the certificate, estimate (in dollars) the total cost from all sources, including district and state funds. If no new equipment will be needed, enter zero (0).

New/Remodeled Facilities: 0

If new or remodeled facilities will be acquired for the certificate, estimate (in dollars) the cost from all sources, including district and state funds. If none, enter zero (0).

Library Acquisitions: 0

If new library and learning resources materials will be acquired for the certificate, estimate (in dollars) the cost of all materials. If none, enter zero (0).

Obtain signature of librarian if not zero _____

Program Review Date: Month August Year 2030

Enter the month and year of the first schedule review of the certificate after it has been approved. For CTE review is every 2 years.

Gainful Employment: Yes No

CTE, Yes, Other, No.

Distance Education 0% 1-49% 50-99% 100%

Indicate the extent to which the courses associated with the certificate are conducted via distance education

B. Supporting Documentation *(Attach to proposal as separate documents)*

Two Options: Use "career" or "other" instructions

Other Program (Designed to Meet Community Needs)

Evidence of need for program proposals is required. Required documentation can be in the form of survey results, letters of support from community agencies, or other regional data in support of the need.

Narrative

1. Statement of Program Goals and Objectives

Students are eager to develop their skills in acting, directing, and performance creation, with a strong desire to engage in original productions and projects. The Certificate of Achievement in Theatre Arts provides the basis of training and experience needed to excel in live performances and on-screen acting. It also creates an award for students who want to complete the core performance and drama courses without completing GE requirements.

Upon successful completion of this program, students will be able to:

1. Create the Illusion of reality
2. Analyze dramatic literature
3. Show a cultural appreciation of dramatic art
4. Demonstrate a variety of production skills
5. Demonstrate a variety of performance skills

2. Catalog Description

The Certificate of Achievement in Theatre Arts for Transfer is designed to build students' performance skills in the area of theatrical production—including acting, stagecraft, and technical theatre; to enrich students' aesthetic and intellectual proficiency in theatre, theatre history, and literature; and to provide pre-professional training. The Certificate of Achievement in Theatre Arts emphasizes production and experience in the creation of theatrical performances. At the same time, the degree offers courses in all aspects of the theatre, both artistic and academic. Faculty, staff, and students work closely together to build a solid foundation in the practical, artistic, and historical aspects of theatre.

3. Program Requirements

	Requirements	Dept. Name/#	Title	Units	Sequence
Required Core	Choose one	DRAM 2	Introduction to Theatre	3	YR 1, Fall
		DRAM 3	Theatre History	3	
	Required	Drama 8	Acting I	3	YR 1, Fall
	Choose one	DRAM 10	Rehearsal & Performance in Production: Musical Theatre	3	YR 1, Fall
		DRAM 12	Rehearsal & Performance in Production	3	
DRAM 14		Technical Theatre in Production	3		
Select 3 courses (9 units minimum):	DRAM 9	Acting II	3	YR 1, Spring	
	DRAM 10	Rehearsal & Performance in Production: Musical Theatre	3		
	DRAM 12	Rehearsal & Performance in Production	3		
	DRAM 14	Technical Theatre in Production	3		
	DRAM 15	Introduction to Stage Costume	3		
	DRAM 16	Acting III Script Analysis	3		
	DRAM 20	Stagecraft	3		
	DRAM 21	Introduction to Theatre Design	3		
DRAM 22	Introduction to Stage Lighting	3			

		DRAM 23	Introduction to Stage Makeup	3	
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Program Total: 18

Proposed Sequence:

Year 1, Fall = 9 units

Year 1, Spring = 9 units

TOTAL UNITS: 18 units

4. Master Planning

This Certificate is a needed option for students at Butte College. We have several students who are only interested in completing the drama sequence of courses but who are not interested in GE courses or who are transferring to a school with that doesn't accept Butte's GE courses easily. This Certificate would allow students to complete the core drama courses and receive an award. We also have students who have already completed a Bachelor's degree and are looking to return to school to study drama and, as before, have no need or interest in GE courses. This Certificate would allow them to earn an award. As Butte and the State of California look to increase completions, this would provide more opportunities for students to complete and earn an award.

Butte College already offers all these courses, so the creation of a Certificate of Achievement in Theatre Arts which mirrors the AA-T but does not require general education courses is a logical addition to our program.

5. Enrollment and Completer Projections

CB01: Course Department Number	CB02: Course Title	2023-2024		2022-2023	
		Annual # Sections	Annual Enrollment Total	Annual # Sections	Annual Enrollment Total
DRAM 8	Acting I	2	55	3	82
DRAM 2	Introduction to Theatre (currently Theatre Arts Appreciation)	2	54	2	59
DRAM 10	Rehearsal & Performance in Production: Musical Theatre (currently Rehearsal and Performance for Musical Theatre)	0	0	0	0
DRAM 12	Rehearsal & Performance in Production (currently Rehearsal & Performance in Production)	0	0	0	0
DRAM 14	Technical Theatre in Production (currently Theatre Production Workshop)	0	0	0	0

Note: the Drama production courses have not been offered the past several years for many reasons. We have completely overhauled the curriculum, of which this change is a part of, to fix that problem.

6. Place of Program in Curriculum/Similar Programs

a) Do any active inventory records need to be made inactive or changed in connection with the approval of the proposed program? If yes, please specify.

No.

b) Does the program replace any existing program(s) on the college's inventory? Provide relevant details if this program is related to the termination or scaling down of another program(s).

No.

c) What related programs are offered by the college?

This degree follows a similar program pattern to other degrees at our college. That is, offering a corresponding certificate to the existing AA-T Degree. In the Music Department, there is a Recording Arts AS and a Certificate of Achievement in Recording Arts, a Music AA-T and a Certificate of Achievement in Music (pending state approval). We need a similar degree for the Drama.

7. Similar Programs at Other Colleges in Service Area

We are the only college in our service area that has a Drama Program.

Department Chair Signature: _____

(Your signature certifies that all faculty members in the program have discussed this proposal)

Dean Signature: _____

Submit this form to Heather Rau - Office of Student Learning (SAS-214)

AA-T Degree in Theatre Arts

Contact Information

Department Office: ARTS 224
Department Phone: (530) 895-2994
Department Contact: Ryan Heimlich, Chair (530) 879-6148
Counseling/ Advising: (530) 895-2378
Transfer Center: (530) 895-2264

About the Program

Program Goal: Transfer
GE Pattern(s): CSU, IGETC
Program Code: 31850.00AA-T

Students completing Associate Degrees for Transfer are guaranteed admission to the CSU system. Please see the beginning of the "Academic Programs" section for details.

The AA-T in Theatre Arts is designed to build students' performance skills in the area of theatrical production—including acting, stagecraft, and technical theatre; to enrich students' aesthetic and intellectual proficiency in theatre, theatre history, and literature; and to provide pre-professional training. The AA-T in Theatre Arts emphasizes production and experience in the creation of theatrical performances. At the same time, the degree offers courses in all aspects of the theatre, both artistic and academic. Faculty, staff, and students work closely together to build a solid foundation in the practical, artistic, and historical aspects of theatre.

Program Learning Outcome(s):

Upon successful completion of the program, the student will be able to:

- ~~1. Describe the historical evolution of theatre and identify a variety of theatrical disciplines, including playwright, actor, director, and technician.~~
- ~~2. Discuss theatre arts from classic to contemporary, including the growth of drama within the context of the human condition.~~
- ~~3. Use appropriately the terminology of acting and the theatre.~~
- ~~4. Analyze scripts as they pertain to performances.~~
- ~~5. Demonstrate proficiency in specific areas of technical expertise.~~
- ~~6. Collaborate with others to create theatre productions.~~
- ~~7. Apply standard practices of ensemble playing in both rehearsal and performance environments.~~
- ~~8. Analyze dramatic literature and productions to identify form and period.~~

1. Create the illusion of reality
2. Analyze dramatic literature
3. Show a cultural appreciation of dramatic art
4. Demonstrate a variety of production skills
5. Demonstrate a variety of performance skills

<i>Required courses:</i>		18.00
<i>Choose one:</i>		
DRAM 2	Theatre Arts Appreciation Introduction to Theatre	3.00
DRAM 3	Theatre History	3.00
<i>Choose one:</i>		
DRAM 8	Principles of Acting I	3.00
<i>Select one:</i>		
DRAM 11	Youth Outreach Theatre	3.00
DRAM 10	Rehearsal & Performance in Production: Musical Theatre	3.00
DRAM 12	Rehearsal & Performance in Production	3.00
DRAM 14	Theatre Production Workshop Technical Theatre in Production	3.00
<i>List A (Select three courses or any course from required core not already used) Complete an additional 3 courses from the following for a total of 9 units:</i>		9.00
DRAM 9	Principles of Acting II	3.00
DRAM 15	Costume Construction Introduction to Stage Costume	3.00
DRAM 16	Acting III Script Analysis	3.00
DRAM 20	Stagecraft	3.00
DRAM 21	Introduction to Theatre Design	3.00
DRAM 22	Introduction to Stage Lighting	3.00
DRAM 23	Introduction to Stage Makeup	3.00
DRAM 10	Rehearsal & Performance in Production: Musical Theatre	3.00
DRAM 12	Rehearsal & Performance in Production	3.00
DRAM 14	Technical Theatre in Production	3.00

Suggested Program Map (CSU GE)

Required courses:

Units: 60.00-67.00

Term 1

16.00-18.00

Choose one:

~~DRAM 2 Theatre Arts Appreciation-Introduction to Theatre 3.00~~
~~Or DRAM 3 Theatre History 3.00~~

Meets CSU Area C1.

~~DRAM 8 Acting I 3.00~~

CSU Area A1 Choice (Select One) 3.00

CSU Area A2 Choice (Select One) 4.00

CSU Area B4 Choice (Select One) 3.00-5.00

CSU Area E Choice (Select One) 3.00

Term 2

15.00-18.00

~~DRAM 8 Principles of Acting I 3.00~~

~~Meets CSU Area C1.~~

Required Core (Select One)

~~DRAM 11 Youth Outreach Theatre 3.00~~

DRAM 10 Rehearsal & Performance in Production: Musical Theatre 3.00

DRAM 12 Rehearsal & Performance in Production 3.00

DRAM 14 Technical Theatre in Production 3.00

DRAM 14	Theatre Production Workshop	3.00
CSU Area A3 Choice (Select One)		3.00
Department recommends CMST 14.		
CSU Area B1/B3 Choice (Select One)		3.00-5.00
CSU Area C2 Choice (Select One)		3.00-4.00
Taking ECON 20, ECON 20H, HIST 8, HIST 10, HIST 18, or HIST 26 is recommended to meet the US-1 graduation requirement for CSU.		
<i>Term 3</i>		15.00-17.00
<i>List A (Select One or any required core course not already used)</i>		3.00
DRAM 9	Principles of Acting II	3.00
DRAM 15	Costume Construction I	3.00
DRAM 21	Introduction to Theatre Design	3.00
DRAM 22	Introduction to Stage Lighting	3.00
CSU Area B2/B3 Choice (Select One)		3.00-5.00
Must have B3 Lab component if not taken in B1/B3.		
CSU Area D Choice(Select One)		3.00
Taking POS 2 or POS 12 is recommended to meet the US-2 graduation requirement for CSU.		
CSU Area F Choice(Select One)		3.00
Elective (any course numbered 1-99)		3.00
Only necessary if the 60 units needed to graduate have not been completed. Consider taking a CSU or IGETC General Education course. Visit www.assist.org to see CSU options. Department recommends CMST 9, CMST 13, or HIST 5.		
<i>Term 4</i>		14.00
<i>List A (Select Two or any required core course not already used)</i>		6.00
DRAM 9	Principles of Acting II	3.00
DRAM 15	Costume Construction I	3.00
DRAM 21	Introduction to Theatre Design	3.00
DRAM 22	Introduction to Stage Lighting	3.00
Area D Choice (Select One)		3.00
Taking POS 2 or POS 12 is recommended to meet the US-2 graduation requirement for CSU.		
Elective (Any Course numbered 1-99)		5.00
Only necessary if the 60 units needed to graduate have not been completed. Consider taking a CSU or IGETC General Education course. Visit www.assist.org to see CSU options.		
		Total: 60.00-67.00



ASSIST does not take the place of a counselor on your campus. It is intended to help students and counselors work together to establish an appropriate path toward transferring from a public California community college to a California university.

Major Articulation Agreement

Theatre Arts B.A.

Effective during the **2024-2025** academic year

To: California State University, Chico
2024-2025 General Catalog, Semester



From: Butte College
2024-2025 General Catalog, Semester

RESOURCES

- See the [University Catalog](#) for the full listing of degree requirements for this major.
- See the [Admissions](#) website for transfer admission requirements/information.
- See the [International Education & Global Engagement](#) website for international transfer academic qualifications.
- See the [Academic Advising Programs](#) website for information on California Promise and Associate Degree for Transfer.
- See the [University Catalog](#) for Credit by Exam information (AP, IB, CLEP).

ASSOCIATE DEGREE FOR TRANSFER MATCH

The BA in Theatre Arts is an approved match to the AA-T in Theatre Arts.

PRACTICUM AND ELECTIVES

- 8 units of Practicum and 6 courses selected from Electives are required for the major, totaling 26 units.
- Of these 26 units, 9 units **MUST** be upper division.
- Carefully select courses to ensure the minimum upper division unit requirement is met.

UPPER DIVISION NOTE

In sections below where the student is directed to select courses and there is a note "Only lower division courses listed," upper division courses are also available. See the [University Catalog](#) for the full listing of degree requirements.

LOWER DIVISION FOUNDATION

1 Complete the following

A

THEA 150 Foundations of Drama

3.00

DRAM 2 Theatre Arts Appreciation

3.00



↳ Course articulates with more than one university course

↳ Maximum credit, one university course

THEA 160	Foundations of Acting	3.00	DRAM 8	Principles of Acting I	3.00
			←	<ul style="list-style-type: none"> └ Course articulates with more than one university course └ Maximum credit, one university course 	
THEA 170	Foundations of Design	3.00	←	DRAM 21	Introduction to Theatre Design 3.00
THEA 180	Social Justice in Theatre	3.00	←	No Course Articulated	
THEA 220	Stagecraft for Theatre and Film	3.00	←	No Course Articulated	
THEA 250	Textual Analysis for Production	3.00	←	No Course Articulated	
THEA 251	World Theatre	3.00	←	No Course Articulated	

PRACTICUM

2

Select 8.00 units from the following.

A

****REFER TO TOP OF AGREEMENT****

Only lower division courses listed

THEA 201	Theatre Rehearsal I	1.00	←	DRAM 12	Rehearsal & Performance 3.00
THEA 204	Costume Practice I	1.00	←	No Course Articulated	
THEA 205	Scene/Light Practice I	1.00	←	DRAM 14	Theatre Production Workshop 3.00
THEA 206	Production Assistant I	1.00	←	No Course Articulated	

ELECTIVES

3

Select 6 courses from the following.

A

****REFER TO TOP OF AGREEMENT****

Only lower division courses listed

THEA 223	Make-Up for Theatre and Film	3.00	←	No Course Articulated	
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THEA 230	Movement for Actors	3.00	← No Course Articulated	
THEA 240	Voice for the Actor	3.00	← No Course Articulated	
THEA 260	Intermediate Acting	3.00	← DRAM 9	Principles of Acting II 3.00

END OF AGREEMENT