

Program Creation Process Sign-Off

Program Title: Commercial and Industrial Technician Program

Program Credits: 24

Type of Program:

Transfer

or

Workforce

Other

Program Description:
This program is designed to provide students with the knowledge and skills necessary to work in the commercial and industrial sectors. The program includes coursework in mathematics, science, and technical skills. Students will also receive hands-on training through internships and practical exercises.

Program Objectives:
The program objectives are to ensure that graduates are competent in their field and ready to enter the workforce. The objectives include:

1. Develop a strong foundation in mathematics and science.

2. Acquire technical skills and knowledge in the commercial and industrial sectors.

3. Gain hands-on experience through internships and practical exercises.

4. Develop critical thinking and problem-solving skills.

5. Prepare students for the workforce and provide them with the necessary skills to succeed.

6. Provide students with the opportunity to earn industry certifications.

7. Offer students the chance to participate in extracurricular activities and clubs.

8. Provide students with the support and resources they need to succeed.

9. Ensure that the program is relevant and up-to-date with industry trends.

10. Provide students with the opportunity to work on real-world projects.

11. Offer students the chance to receive mentorship from industry professionals.

12. Provide students with the opportunity to participate in career fairs and networking events.

13. Ensure that the program is accessible to all students.

14. Provide students with the opportunity to receive financial aid.

15. Offer students the chance to participate in community service projects.

16. Provide students with the opportunity to receive letters of recommendation.

17. Ensure that the program is evaluated and improved regularly.

18. Provide students with the opportunity to receive awards and recognition.

19. Offer students the chance to participate in leadership roles.

20. Provide students with the opportunity to receive career counseling.

21. Ensure that the program is aligned with industry standards.

22. Provide students with the opportunity to receive job placement assistance.

23. Offer students the chance to participate in industry conferences.

24. Provide students with the opportunity to receive industry internships.

25. Ensure that the program is a high-quality education.

26. Provide students with the opportunity to receive industry certifications.

27. Offer students the chance to participate in industry projects.

28. Provide students with the opportunity to receive industry awards.

29. Ensure that the program is a valuable investment for students.

30. Provide students with the opportunity to receive industry mentorship.

31. Offer students the chance to participate in industry networking events.

32. Provide students with the opportunity to receive industry letters of recommendation.

33. Ensure that the program is a high-quality education.

34. Provide students with the opportunity to receive industry certifications.

35. Offer students the chance to participate in industry projects.

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41. Ensure that the program is a high-quality education.

42. Provide students with the opportunity to receive industry certifications.

43. Offer students the chance to participate in industry projects.

44. Provide students with the opportunity to receive industry awards.

45. Ensure that the program is a valuable investment for students.

FOOTHILL COLLEGE

Credit Program Narrative

Item 1. Program Goals and Objective

The goal of this program is to graduate students who can successfully

Item 2. Catalog Description

This program prepares students to apply basic and applied principles and technical skills to support of

Item 3. List of Courses

Course	Prerequisites	Sequence	Requirements	Units	Grade
ENGR 101		1	Engineering Fundamentals	3	C
ENGR 102	ENGR 101	2	Engineering Graphics	3	C
ENGR 103	ENGR 101	3	Engineering Materials	3	C
ENGR 104	ENGR 101	4	Engineering Mechanics	3	C
ENGR 105	ENGR 101	5	Engineering Thermodynamics	3	C
ENGR 106	ENGR 101	6	Engineering Fluid Mechanics	3	C
ENGR 107	ENGR 101	7	Engineering Heat Transfer	3	C
ENGR 108	ENGR 101	8	Engineering Electromagnetics	3	C
ENGR 109	ENGR 101	9	Engineering Optics	3	C
ENGR 110	ENGR 101	10	Engineering Acoustics	3	C
ENGR 111	ENGR 101	11	Engineering Vibration	3	C
ENGR 112	ENGR 101	12	Engineering Control Systems	3	C
ENGR 113	ENGR 101	13	Engineering Robotics	3	C
ENGR 114	ENGR 101	14	Engineering Nanotechnology	3	C
ENGR 115	ENGR 101	15	Engineering Biotechnology	3	C
ENGR 116	ENGR 101	16	Engineering Environmental	3	C
ENGR 117	ENGR 101	17	Engineering Safety	3	C
ENGR 118	ENGR 101	18	Engineering Quality	3	C
ENGR 119	ENGR 101	19	Engineering Project Management	3	C
ENGR 120	ENGR 101	20	Engineering Business	3	C
ENGR 121	ENGR 101	21	Engineering Law	3	C
ENGR 122	ENGR 101	22	Engineering Ethics	3	C
ENGR 123	ENGR 101	23	Engineering Communication	3	C
ENGR 124	ENGR 101	24	Engineering Leadership	3	C
ENGR 125	ENGR 101	25	Engineering Innovation	3	C
ENGR 126	ENGR 101	26	Engineering Entrepreneurship	3	C
ENGR 127	ENGR 101	27	Engineering Social Responsibility	3	C
ENGR 128	ENGR 101	28	Engineering Globalization	3	C
ENGR 129	ENGR 101	29	Engineering Sustainability	3	C
ENGR 130	ENGR 101	30	Engineering Future Trends	3	C

Item 4. Enrollment and Completion Projections

Labor Market Information

The state of California is considered the second highest employment level in this occupation with 3,660 jobs with a projected growth in employment from 2012 to 2022.

<http://www.bls.gov/oes/current/oes19101000.htm>

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Item 5.

According to the Bureau of Labor Statistics, the projected increase in the number of jobs in this occupation is 3,660.

The projected increase is the increase in the number of jobs in this occupation.

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Item 6. Place of Program in Curriculum/Similar Programs

Student requirements (if required)

There are currently no similar programs at "Robert" College. The curriculum is expressed by the following:

Additional information regarding the program (if applicable)

expressed by the following:

Currently available physical and engineering job statistics at DSEC center. Additional information regarding the program (if applicable)

The program will use the following:

Information with the Firm, Act, etc. for a student's Design program will classify as

This program is currently

Item 7. Similar Programs at Other Colleges in Series

According to the Economic Modeling Specialists International, in the greater bay area region, there are a

De Anza has a state of the art manufacturing & CNC technology career program. Students can benefit from an on-campus internship program. The program is currently