

ENGINEERING

Thinking about a Career in Engineering?

Orientation:

Cabrillo's Aptos Campus: Tuesday, January 23, 6PM–8PM, STEM Center, Room 834

Cabrillo's Watsonville Center en español también: Wednesday, January 24, 6PM–8PM, Solari Center, Room WatD101

Attend the Engineering Department Orientation to get an overview about engineering as a career and learn about Cabrillo's engineering program and the required transfer courses.

¿Pensando en una carrera en ingeniería?

Orientación:

Cabrillo's Aptos Campus: Martes, Enero 23, 6PM–8PM, STEM Center, Cuarto 834

Cabrillo's Watsonville Center en español también: Miércoles, Enero 24, 6PM-8PM, WatD101, Solari Center

Asistir a la Orientación del Departamento de Ingeniería para obtener una visión general de la ingeniería como una carrera y aprender sobre de Cabrillo's programa de ingeniería y los cursos de transferencia requeridos.

For more information about the engineering program:
www.cabrillo.edu/academics/engineering.

For course sequences and flowchart, visit:
www.cabrillo.edu/academics/engineering/

ENGR 5 Engineering as a Profession

Provides information to evaluate the engineering profession as a personal career choice. Recommended Preparation: ENGL 100 or ESL 100 and ENGL 100L or Assessment into ENGL 1A; READ 100.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
1	W	11:10AM-2:15PM	2.00	Panzardi/Ewald/Groppi/Horner	810

Meets 11 weeks 1/31-4/18. Holiday 3/28.

2	W	6:00PM-9:05PM	2.00	Panzardi/Ewald/Groppi/ Campbell	810
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Meets 11 weeks 1/31-4/18. Holiday 3/28.

ENGR 12 Machining Processes

Provides hands-on experience with fabrication of mechanical components and assemblies using conventional, automatic, and numerical control tools.

Recommended Preparation: ENGL 100 or ESL 100 and ENGL 100L or Assessment into ENGL 1A; READ 100.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
1	T	6:00PM-6:50PM	1.50	R.McCoun	810
&	T	7:00PM-9:05PM		R.McCoun	810

Due to safety concerns, students under 18 years of age must get permission of Engineering Department Chair, Jo-Ann Panzardi, jp@cabrillo.edu, to enroll in ENGR 12.

ENGR 15 Circuits

Analyzes the DC and AC electrical circuits containing resistors, capacitors, inductors, dependent sources, operational amplifiers and/or switches. Students enrolled in the Honors Transfer Program may count this course towards the "Honors Scholar" designation. Spring semester only. Prerequisite: PHYS 4B. Hybrid Requisite: Completion of or concurrent enrollment in MATH 7. Recommended Preparation: Eligibility for 1A/1AH/1AMC/1AMCH; READ 100.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
1	MW	9:30AM-10:50AM	4.00	C.Figueroa	825
&	T	2:30PM-5:35PM		C.Figueroa	802

2	MW	9:30AM-10:50AM	4.00	C.Figueroa	825
&	F	12:00PM-3:05PM		C.Figueroa	810

ENGR 25 Graphics and Design

Applies principles of engineering drawing in visually communicating engineering designs using freehand sketching, instrument drawing, and computer-aided drafting/design using AutoCAD. Prerequisite: MATH 153 or MATH 3 or MATH 4 or high school geometry. Recommended Preparation: ENGL 100 or ESL 100 and ENGL 100L or Assessment into ENGL 1A; READ 100.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
1	MW	2:30PM-3:50PM	4.00	K.Groppi	810
&	MW	4:00PM-5:20PM		K.Groppi	810

ENGR 26 Solid Modeling

Applies principles of solid modeling using Creo Parametric in engineering design and the production of engineering drawings. Spring semester only. Hybrid Requisite: Completion of or concurrent enrollment in ENGR 25. Recommended Preparation: ENGL 100 or ESL 100 and ENGL 100L or Assessment into ENGL 1A; READ 100.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
1	M	6:00PM-9:05PM	1.00	R.Hines	810

ENGR 30 Computer Applications in Engineering

Applies computer-based problem-solving methods relevant to engineering using the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Prerequisite: MATH 5A. Recommended Preparation: ENGL 100 or ESL 100 or Eligibility for 1A/1AH/1AMC/1AMCH; READ 100.

Transfer Credit: Transfers to CSU;UC C-ID ENGR 220

Section	Days	Times	Units	Instructor	Room
1	TTH	2:30PM-3:50PM	4.00	K.Ewald	810
&	TTH	4:00PM-5:20PM		K.Ewald	810
2	TTH	2:30PM-3:50PM	4.00	K.Ewald	810
&	TTH	4:00PM-5:20PM		K.Ewald	810

This section is for students in the STEM-T learning community. In order to register for this section, please complete the form at <http://go.cabrillo.edu/STEM-T>.

ENGR 35 Statics

Analyzes two- and three-dimensional force systems on rigid bodies in static equilibrium. Prerequisite: PHYS 4A, MATH 5B. Recommended Preparation: ENGR 25, ENGL 100 or ESL 100 and ENGL 100L or Assessment into ENGL 1A; READ 100.

Transfer Credit: Transfers to CSU;UC C-ID ENGR 130

Section	Days	Times	Units	Instructor	Room
1	F	9:30AM-11:35AM	3.00	R.Wyland	810
&	TTH	9:30AM-10:50AM		R.Wyland	810

2	F	9:30AM-11:35AM	3.00	R.Wyland	
&	TTH	9:30AM-10:50AM		R.Wyland	810

This section is for students in the STEM-T learning community. In order to register for this section, please complete the form at <http://go.cabrillo.edu/STEM-T>.

ENGR 98B Engineering Abroad

Explores the interrelationship between engineering, technology, and culture through a service-learning or an experiential engineering abroad experience. Taking ENGR 98A + ENGR 98B meet the Cabrillo College multicultural studies requirement.

Prerequisite: ENGR 98A.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
1	MTWTHF	9:00AM-12:20PM	1.00	P.Campbell	OFFCAM
	SSU				

Meets 1/4-1/18. This course is reserved for students in the Engineering Abroad Program. Contact Jo-Ann Panzardi, Chair, for details: jp@cabrillo.edu.