

TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered Through:

CORVALLIS

Central Oregon Community College

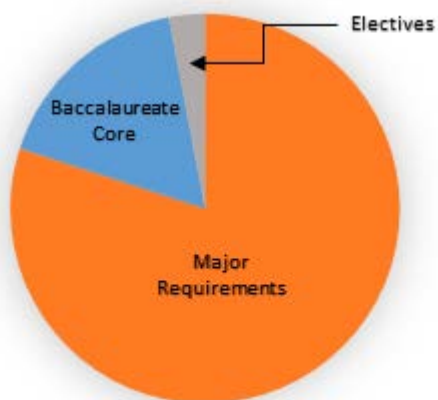
Electrical & Computer Engineering

Electrical and computer engineers apply physics and mathematics to design, build, market, and support electrical and electronic products and computer hardware. They develop new technologies for a broad range of applications, including wireless communications, power systems, health care and medicine, multimedia, and navigation.

Electrical and computer engineers:

- Develop wind, wave, and solar energy systems.
- Design medical imaging systems for hospitals and pacemakers for heart patients.
- Build smaller, faster, and more powerful electronic devices.
- Create versatile smartphones and tablets.

Bachelor of Science Degree (BS) in the College of Engineering



- A minimum of 192 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 124 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- Some courses can count towards your major and the Baccalaureate Core. Advisors can assist in selection.
- OSU Catalog has a list of courses required for your major and option: catalog.oregonstate.edu

Courses for this Major offered at Central Oregon Community College

Requirement	COCC Course	OSU Course	Notes
Engineering Orientation I, II	GE 101, 102	ECE 111, 112	
Digital Logic Design	Not available at COCC	ECE 271 + 272	Must be taken at OSU
Electrical Fundamentals I, II	ENGR 201, 202	ENGR 201, 202	
Electrical Fundamentals III	Not available at COCC	ENGR 203	Must be taken at OSU
Computer Programming I	CS 161, 162	CS 161, 162	
Data Structures	CS 260	CS 261	
Discrete Math	MTH 231	MTH 231	
Calculus Series I, II, III	MTH 251, 252, 254	MTH 251, 252, 254	
Introduction to Matrix Algebra	MTH 253	MTH 264	
Introduction to Series	MTH 253	MTH 265	
Differential Equations	MTH 256	MTH 256	
Chemistry for Engineers	CH 221	CH 231 + 261	Fulfills CH 201 at OSU
Physics with Calculus I, II, III	PH 211, 212, 213	PH 211, 212, 213	

Important Notes & Resources

Important Notes for the College and Major:

- Grade of C or better are required in all major specific courses.
- ECE majors can participate in two six-month paid internships with MECOP <https://www.mecopinc.org/>

Resources and OSU Information:

- Students do not have to complete a transfer degree in order to transfer to OSU.
- If you have completed the Oregon AAOT, all requirements of the Baccalaureate Core are complete except for Synthesis Courses and Writing Intensive Courses.
- Preparing to apply to OSU? See admissions info: oregonstate.edu/admissions/transfer.html
- Want to take classes at both OSU and an Oregon community college? Check out the Degree Partnership Program: partnerships.oregonstate.edu/students
- Visit OSU for a campus tour and meet with an advisor; schedule your visit at visitosu.oregonstate.edu/visit-campus

General Education Courses (called Baccalaureate Courses)

- Complete one course in each Perspectives category with no more than two in the same department.
- For full listing of courses that fulfill Baccalaureate Core, please refer to admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-central-oregon-community-college

SKILL COURSES	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major. WR 121. Required to transfer. WR 227 COMM 111 or COMM 112 HE 295
PERSPECTIVE COURSES	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Completed as part of major. Completed as part of major. Completed as part of major. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above. Many options, see BaccCore link above.
DPD COURSES	Difference, Power, and Discrimination	Many options, see BaccCore link above.
SYNTHESIS COURSES	Contemporary Global Issues Science, Technology, and Society	Upper division course, take through OSU. Upper division course, take through OSU.

Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. See your community college advisor first and use this Transfer Guide to help you plan. Also, consider visiting OSU to take a campus tour and meet with an advisor. See visitosu.oregonstate.edu/visit-campus to schedule your personalized visit.

COCC Advisors	
OSU Electrical Engineering & Computer Science Advisor	eecondsundergrad.info@enr.oregonstate.edu
OSU College of Engineering Main Office	askengineering@oregonstate.edu