CalPolyPomona Master of Science in Civil Engineering (MSCE)

The Cal Poly Pomona MSCE program is intended to serve both full-time and part-time graduate students who have a BSCE or closely related undergraduate degree that currently are, or intend to become, practicing civil engineers.

WHAT?

Evaluation Criteria

1. **BSCE degree** *(or equivalent)* from an ABET accredited program
   (Admission criteria may vary depending on the degree option)
2. **Overall GPA of at least 3.0** (out of 4.0) in all upper division courses
3. **Preparatory course work GPA of at least 3.0** (out of 4.0)
4. **Additional requirements** by individual MSCE programs

Additional Requirements

1. **All applicants with undergraduate education from a foreign country** must provide proof of English language proficiency
2. **TOEFL:** a minimum of 80 or **IELTS:** a minimum of **6.5**
3. **GRE:** Waived

WHY?

01 Specialized Knowledge

Easily gain **specialized knowledge in your industry:**

- Construction Engineering and Management
- Environmental and Water Resources
- Geotechnical Engineering
- Structural Engineering
- Transportation Engineering

02 Career Growth

The Master's degree will be **the best path for career advancement**. The degree could help you move into more senior roles, including management and leadership.

03 Professional Network

The students come **from a variety of backgrounds and industries**. Everyone will be connected to an extensive network of professionals.

04 Schedule Flexibility

All classes for your Master's Degree will **work around your availability**, no matter how busy you are (evening classes).

HOW?

- New graduate students are accepted **every semester.**
- Applications are accepted at **the CSU Apply website.** (https://www.calstate.edu/apply)
- Use **major code 09081** and indicate the desired area (program).
- Applicants with an undergraduate **GPA of less than 3.0** *(higher than 2.75)* must also submit **two letters of recommendation.**
- The application deadline for Fall 2024 admission is **April 1, 2024.**

Contact **Lisa Wang**, Ph.D., P.E. / Graduate Coordinator
Email ylwang@cpp.edu / Phone (909) 869 - 4641

Scan Here To The CPP MSCE To Apply

Cal Poly Pomona Graduate Options (30 units)

Program	Required Courses	Elective Courses	Degree Requirement
Construction Engineering and Management	• Construction Productivity • Construction Financial Management • Construction Risk Analysis • Advanced Construction Project Management • Construction Project Delivery Methods	• Underground Const. & Trenchless Technology • Temporary Construction Structure • Total Quality Management • GIS Applications in Civil Engineering • Advanced Foundation Engineering • Pavement Design and Construction • Street Maintenance, Rehabilitation and Management	One of **Master's Project** (3 units) / **Master's Thesis** (6 units) / **Comprehensive Exam** (0 units)
Environmental and Water Resources	• Environmental Water Resources Seminar • Environmental and Water Resources Research Methods • Municipal Hydraulic Systems • Applied Hydrology • Bioresources and Bioenergy Recovery • Advanced Water Treatment • Advanced Wastewater Treatment	• Environmental Chemistry • Solid and Hazardous Waste Engineering • Environmental Remediation • Air Quality Engineering • Unit Operations and Processes in Environmental Eng. • River Mechanics • Global Climate and Water Supply • GIS Applications in Civil Engineering	
Geotechnical Engineering	• Advanced Soil Mechanics • Numerical Methods in Geomechanics • Advanced Foundation Engineering • Subsurface Investigation and Characterization and Lab • Geotechnical Earthquake Engineering	• Earth Retaining Structures • Numerical Methods • Rock Mechanics • Slope Stability and Earth Dams • Pavement Design and Construction • Engineering Geology II/Lab • Foundation and Retaining Wall Design*	
Transportation Engineering	• Design of Transportation Facilities • Traffic Flow Analysis • Transportation Systems Design & Operation • Transportation Planning & Management • Intelligent Transportation Systems • Multimodal Traffic Analysis	• GIS Applications in Civil Engineering • Pavement Design and Construction • Public Transportation • Transportation Administration and Policy • Airport Engineering • Traffic Safety Analysis • Advanced Computer Programming in Civil Eng. • Traffic Engineering	
Structural Engineering	• Probability Analysis, Structures, and Infrastructure System Reliability • Structural Dynamics • Finite Element Analysis • Advanced Structural Analysis • Seismic Design of Structures • Advanced Steel Design • Advanced Reinforced Concrete Design	• Stability of Structures • Prestressed Concrete Design • Advanced Timber Design • Light Gage Steel Design • Geotechnical Earthquake Engineering • Bridge Design* • Introduction to Earthquake Engineering and Structural Dynamics*	

Applied Probability Concepts in Civil Engineering (3 units)

* Up to 3 units of approved undergraduate courses (4000-level courses)

Contact **Lisa Wang**, Ph.D., P.E. / Graduate Coordinator
Email ylwang@cpp.edu / Phone (909) 869 - 4641

Scan Here To The CPP MSCE To Apply