

**150** Enrollment (Spring 2020)

**28** MS Degree Awarded  
(2018-2019)



**27** Full-time Faculty

**1:5.5** Faculty to Student Ratio

## Mission Statement

1

Serve both **full-time and part-time** graduate students

2

Strengthen knowledge of **principles and practices**

3

Focus on **the application** of the principles and practices

## Admission Requirements

### Evaluation Criteria

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

### Language Proficiency

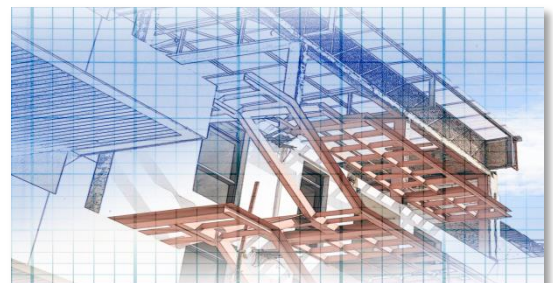
- All applicants with undergraduate education from a foreign country** must provide proof of English language proficiency
- TOEFL:** a minimum of **80** (Internet-based test)
  - IELTS:** a minimum of **6.5**
  - GRE:** All international applicants

## How to Apply

- New students are accepted **every semester**
- Applications are accepted at **the CSU Apply web site** ([www2.calstate.edu/apply](http://www2.calstate.edu/apply))
- Use **major code 09081** and indicate the desired emphasis area (program)
- Applicants with an undergraduate **GPA of less than 3.0** (*higher than 2.75*) must also submit **GRE scores** and **letter of recommendations**
- The application deadline for Fall 2020 semester admission is **July 1<sup>st</sup>, 2020**.

### Contact:

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**Graduation  
Options :**

**Course  
Requirements**

**&  
one of**

- Master's Project** (3 units)
- Master's Thesis** (6 units)
- Comprehensive Exam** (0 units)

The program requires **30** units

Program	Required Courses	Technical Electives Courses
<b>Construction Engineering and Management</b>	<ul style="list-style-type: none"> <li>• Applied Probability Concepts in Civil Eng.</li> <li>• Construction Productivity</li> <li>• Construction Risk Analysis</li> <li>• Advanced Construction Project Management</li> <li>• Construction Project Delivery Methods</li> </ul>	<ul style="list-style-type: none"> <li>• Construction Financial Management</li> <li>• Underground Const. &amp; Trenchless Technology</li> <li>• Temporary Construction Structure</li> <li>• Construction Leadership and Ethics</li> </ul>
<p><b>Contact (Area coordinator):</b> Jinsung Cho, Ph.D. (jinsungcho@cpp.edu)</p>		
<b>Environmental and Water Resources</b>	<ul style="list-style-type: none"> <li>• Applied Probability Concepts in Civil Eng.</li> <li>• Municipal Hydraulic Systems</li> <li>• Applied Hydrology</li> <li>• Advanced Water Treatment</li> <li>• Advanced Wastewater Treatment</li> </ul>	<ul style="list-style-type: none"> <li>• Environmental Water Resources Seminar</li> <li>• Environmental Chemistry</li> <li>• Solid and Hazardous Waste Engineering</li> <li>• Environmental Remediation</li> <li>• Air Quality Engineering</li> <li>• Unit Operations and Processes in Environmental Engineering</li> <li>• River Mechanics</li> <li>• Global Climate and Water Supply</li> <li>• GIS Applications in Civil Engineering</li> </ul>
<p><b>Contact (Area coordinator):</b> Monica Palomo, Ph.D., P.E., BCEE (mpalomo@cpp.edu)</p>		
<b>Geotechnical Engineering</b>	<ul style="list-style-type: none"> <li>• Applied Probability Concepts in Civil Eng.</li> <li>• Advanced Soil Mechanics I &amp; II</li> <li>• Subsurface Exploration and Characterization</li> <li>• Engineering Geology II</li> <li>• Engineering Geology II Laboratory</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced Foundation Engineering</li> <li>• Slope Stability and Earth Dams</li> <li>• Rock Mechanics</li> <li>• Earth Retaining Structures</li> <li>• Geotechnical Earthquake Engineering</li> <li>• Pavement Design and Construction</li> </ul>
<p><b>Contact (Area coordinator):</b> Mehrad Kamalzare, Ph.D., P.E. (mkamalzare@cpp.edu)</p>		
<b>Structural Engineering</b>	<ul style="list-style-type: none"> <li>• Applied Probability Concepts in Civil Eng.</li> <li>• Advanced Engineering Mathematics</li> <li>• Structural Dynamics</li> <li>• Finite Element Analysis</li> <li>• Advanced Steel Design</li> <li>• Advanced Structural Analysis</li> <li>• Advanced Reinforced Concrete Design</li> <li>• Seismic Design of Structures</li> </ul>	<ul style="list-style-type: none"> <li>• Stability of Structures</li> <li>• Theory of Plates and Shells</li> <li>• Advanced Timber Design</li> <li>• Geotechnical Earthquake Engineering</li> <li>• Advanced Mechanics of Materials</li> <li>• Advanced Finite Element Modeling</li> <li>• Numerical Methods</li> </ul>
<p><b>Contact (Area coordinator):</b> Lisa Y. Wang, Ph.D., P.E. (ylwang@cpp.edu)</p>		
<b>Transportation Engineering</b>	<ul style="list-style-type: none"> <li>• Applied Probability Concepts in Civil Eng.</li> <li>• Traffic Flow Analysis</li> <li>• Transportation Systems Design &amp; Operation</li> <li>• Transportation Planning &amp; Management</li> </ul>	<ul style="list-style-type: none"> <li>• Design of Transportation Facilities</li> <li>• Public Transportation</li> <li>• Transportation Administration and Policy</li> <li>• Airport Engineering</li> <li>• Transportation Systems Simulation</li> <li>• Intelligent Transportation Systems</li> <li>• Traffic Safety Analysis</li> <li>• Advanced Computer Programming in Civil Eng.</li> <li>• Multimodal Traffic Analysis</li> <li>• Traffic Engineering</li> </ul>
<p><b>Contact (Area coordinator):</b> Wen Cheng, Ph.D., P.E., PTOE (wcheng@cpp.edu)</p>		