Civil & Construction Engineering Technology
Portland Community College

Advising Guide for 2021 - 2022

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Program Description

Jobs in the construction area are growing. Portland Community College's Civil and Construction Engineering Technology program offers a 2-year Associate of Science Degree that provides technician training for employment in support of infrastructure construction and maintenance in both the public and private sectors. The curriculum incorporates hands-on with the latest in technology, teaching materials testing, inspection, plan reading, estimating, project management, computer-aided drafting and surveying.

Term by Term

Term 1: Fall Term			
Credits	Course		Notes
3	CCET 100	Civil Engineering Construction Overview	Geomatics Option
3	CCET 110	Plan Reading	Geomatics Option
4	GEO 265	Introduction to GIS	Geomatics requirement
4	MTH 95	Intermediate Algebra	Geomatics requirement

Term 2: Winter Term			
Credits	Course		Notes
3	CCET 120	Infrastructure	
3	CCET 140	Introduction to Civil & Construction Drafting	Geomatics requirement
5	MTH 111	College Algebra	Geomatics requirement
4	WR 121	College Composition	Geomatics requirement

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Term 3: Spring Term			
Credits	Course		Notes
3	CCET 150	Civil & Construction Drafting 2	
4	COMM 130	Business & Professional Communication	
5	MTH 112	Elementary Functions	Geomatics requirement
4	PHY 201	General Physics 1	Gen Ed

Summer term could be used to take a Writing, Communications or a General Education course or working at an internship

Term 4: Fall Term			
Credits	Course		Notes
4	CCET 210	Introduction to Surveying	Geomatics requirement
4	CCET 215	Construction Materials	
4	CCET 225	Engineered Water Systems	
4	COMM 140	Introduction to Intercultural Communication	Gen Ed

Term 5: Winter Term			
Credits	Course		Notes
3	CCET 220	Computer Applications in Surveying	
4	CCET 240	Introduction to 3D modeling for Civil & Construction	
3	CCET 260	Civil & Construction Project Management	
3	CCET 270	Inspection	
4	Gen Ed		

Term 6: Spring Term			
Credits	Course		Notes
3	CCET 230	Intermediate Surveying	Geomatics requirement
3	CCET 250	3D modeling for Civil & Construction 2	
4	CCET 280	Capstone	
4	WR 227	Technical & Professional Writing 1	
3-4	Gen Ed	Social Science General Education Course	

Program Prerequisites

Reading / Writing 115, MTH 65 or placement into MTH 95

Companies we work with

- KPFF
- City of Portland
- City of McMinnville
- Westlake Consultants
- Environmental Management Systems, Inc
- RedBuilt
- US Forest Service

Frequently asked Questions

When can I start?
Currently the program courses start in Fall term. There are non program courses like Math, Writing, Communications and Geography courses that you could get started on any term. Please meet with our advisor to find out more details.

How much does this program cost?
For current program costs please visit the website here. Program costs are updated annually.

Is the program online or in-person?
Both! Many of the program courses are available as a hybrid, which means a portion of the course material will be online and a portion will be in person.

How will this take to complete?
The program is 6 terms of about 14 to 16 credits a term. It will take two full academic years to complete.

Can I work full time while going to school?
Yes. If you have flexibility in your schedule you can go to school and work. This may mean taking a partial load and would extend the time it would take to complete Most of these courses will be offered during the day.

Catalog link:

Link will be added soon.

Program Outcomes

1. Apply analytical techniques and problem-solving skills using the knowledge of fundamental mathematics and technical sciences to address problems encountered in Civil & Construction Engineering Technology.
2. Use oral, written, visual and graphic communication skills in interpersonal, team, and group work environments that include technical and non-technical personnel.
3. Use 2D and 3D visualization skills, Computer Aided Drawing and Drafting (CADD) software, and Building Information Modeling (BIM) software to create civil and construction engineering drawings using proper industry standards and conventions.
4. Use industry-standard practices in civil and construction engineering laboratory techniques, equipment implementation and computational technology to collect, analyze, and interpret data.