Concrete Technology

Associate in Applied Science (AAS) Degree

Description: Alpena Community College's Concrete Technology Associate in Applied Science (AAS) program is the only one of its kind in the nation. Students in this two-year program learn about all aspects of the concrete industry through a specialized curriculum featuring hands-on experience in material sciences, communication, computation, computer use, and a summer construction internship. Students use state-of-the-art equipment housed in the World Center for Concrete Technology, one of the premier facilities in the world. The successful Concrete Tech student is prepared for a variety of career opportunities throughout the concrete industry and receives a number of job offers upon graduation. The Concrete Technology program was developed in the late 1960s as one of the original associate degree curriculums offered by the Portland Cement Association. Since then hundreds of men and women have gone through the program and currently fill many diverse positions throughout the global industry. This program allows students to continue their higher education endeavors at various universities.

General Education Requirements **Credits: 26**

ENG 120	Applied Communication (3/3) B
ENG 123	Technical Communication (3/3) C
MTH 115	Applied Algebra & Trigonometry (5/6) D
MTH 116	Applied Algebra & Trigonometry II (5/6) D
MTH 119	Intro to Computers & Programing (3/3) E
PHY 111	Applied Physics (3/4)
PLS 221	American Government & Politics (3/3) F
SDE 201	Job Search Strategies (1/1)

Core Program Requirements **Credits: 42**

CON 110	Intro to Concrete Technology (1/1) A
CON 121	Aggregates (3.5/4.9) A
CON 122	Concrete Admixtures (1/1) A
CON 123	Cementitious Materials (1.5/2.1) A
CON 124	Concrete Mix Proportioning (4/6) A
CON 221	Placed Concrete I (4/6/) A
CON 222	Placed Concrete II (4/6) A
CON 223	Concrete Masonry Production (4/6) A
CON 224	Prestress/Precast Concrete 3/5) A
CON 226	Concrete Troubleshooting & Repair (2/2) A
CON 227	Construction Inspection (2/2) A
CON 231	Concrete Project Lab (1/1) A
CON 232	Project Lab (2/2) A
CST 112	Building Construction (3/3) A
CST 151	Construction Summer Co-Op (6/6) A

Suggested Electives **Credits: 3**

Minimum 71 Credit Hours/86 Contact Hours

Notes:

A Included in occupational specialty.
GPA of 2.0 or higher must be maintained in occupational specialty courses

B May substitute ENG 111 or ENG 121.

C May substitute ENG 112 or ENG 122.

D May substitute any higher math course or MTH110 or MTH112.

E May substitute CIS 120.

F May substitute PLS 222 or HST 221 & HST 222.

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Suggested Sequence of Courses

Year 1 (Fall Semester) **Credits: 18**

CON 110	Intro to Concrete Technology (1/1)
CON 121	Aggregates (3.5/4.9)
CON 123	Cementitious Materials (1.5/2.1)
ENG 120	Applied Communication (3/3)
MTH 115	Applied Algebra & Trigonometry (5/6)
MTH 119	Intro to Computers & Programing (3/3)
SDE 201	Job Search Strategies (1/1)

Year 1 (Spring Semester) **Credits: 16**

CON 122	Concrete Admixtures (1/1)
CON 124	Concrete Mix Proportioning (4/6)
CST 112	Building Construction (3/3)
ENG 123	Technical Communication (3/3)
MTH 116	Applied Algebra & Trigonometry II (5/6)

Year 1 (Summer Semester) **Credits: 6**

CST 151	Construction Summer Co-Op (6/6)

Year 2 (Fall Semester) **Credits: 17**

CON 221	Placed Concrete I (4/6/)
CON 223	Concrete Masonry Production (4/6)
CON 227	Construction Inspection (2/2)
CON 231	Concrete Project Lab (1/1)
PLS 221	American Government & Politics (3/3)
PHY 111	Applied Physics (3/4)

Year 2 (Spring Semester) **Credits: 14**

CON 222	Placed Concrete II (4/6)
CON 224	Prestress/Precast Concrete 3/5)
CON 226	Concrete Troubleshooting & Repair (2/2)
CON 232	Project Lab (2/2)
	Program Elective (3/3)