

2021

CERTIFICATE IN CONSTRUCTION MANAGEMENT FOR HIGH SCHOOL STUDENTS

State-of-the-art technical training programs for students who want to get good jobs after high school, continue their technical training, or go on earn a college degree.

Students can earn important construction industry credentials, which provide a significant edge in the job market or when pursuing a college degree or further training.



Bergen Community College
Division of Continuing Education
and Workforce Development
February 2021



Bergen Community College's Division of Continuing Education and Workforce Development is pleased to offer the following opportunities in the Construction Management Industry to partner with High School Administration for the benefit of New Jersey High School Students to provide new pathways into careers and future educational opportunities. These educational programs have been well established for over 10 years, and have proved highly successful for those seeking to enter, re-enter, or move up in construction industry careers.

Certificate in Construction Management:

The Certificate in Construction Management is a career-oriented program preparing individuals for opportunities in the building, construction and engineering industries. The coursework prepares students to enter the field as assistant to the project superintendent, assistant construction project coordinator, building maintenance staff, assistant estimator, or scheduler. Those individuals already in the field will gain skills and knowledge to further their careers at the safety, management, site superintendent, and project management levels. Professionals from other disciplines develop an understanding of the building design, engineering and construction process. Courses begin with a solid understanding of blueprint reading, understanding estimating, project scheduling with Oracle Primavera P6 software, and the entire construction process. Unique to our programs is the real-world experiences that our instructors, all presently employed in their area of specialty, bring to our students. Attend this program and gain new skills, develop an understanding of contract documents, legal issues, dispute resolution, and earn important industry recognized safety credentials.

- To obtain the certificate of completion in Construction Management program attendees must successfully complete all core courses, or 200 hours of instruction from the courses below.

Core Courses:

CD 125 Construction Site Management

CD 132 Fundamentals of Construction Safety Management and Emergency Planning*

CD 133 30-hour OSHA Construction Industry Safety Training (National Industry Safety Credential)

CD 405 Basic to Intermediate Blueprint Reading

CD 459 Construction Documents, Law, Ethics Best Practices and Insurance

CD 466 Construction Project Management & Organization

CD 580 Construction Project Scheduling I Oracle Primavera P6

CD 582 Construction Estimating Basics*

Depending on student interests, additional courses are available to further their studies. Several of the courses listed below offer college credits. These limited seats are in credit bearing courses, with undergraduate students. Credit bearing courses have graded assignments and attendance rules for all enrolled which match the undergraduate student requirements. All courses state that enrolled students must abide by the student code of conduct as stated for the entire college community.

Additional Courses:

CC 407 AutoCAD Level I

CC 422 AutoCAD Level II*

CC 599 AutoCAD 3D*

CD 124 Advanced Construction Estimating *

CD 136 Advanced Blueprint Reading*

CD 148 Construction Project Scheduling II Oracle Primavera P6*

CD 163 Drafting I (3Credits)

CD 164 Computer Aided Design (3 Credits)

CD 165 Methods & Materials in Construction* (3Credits)

CD 168 Building Systems (3 Credits)

CD 473 Negotiating Construction Contracts

CD 512 Water Resource Management

CD 523 Photovoltaic Design and Installation (Solar Panel Array)

CD 578 Waste Management & Reduction (NJ CRP CEUs Offered)

CD 581 Environmental Testing

** - Prerequisites Required*

National Credentials:

OSHA 30HR Construction Safety Training, ID card Industry Credential

NJ CRP, (Certified Recycling Professionals), CEUs

Courses noted above may be taken individually or in any order unless a prerequisite is needed. A minimum 80-percent attendance, assignments, projects, and class participation are requirements for successful completion of each course. A certificate of completion is earned for each course completed successfully along with the final program certificate once the 200 hours of training requirement has been met. College credits will also be earned in the program. The number of credits will range from 9 – 12, depending on which electives the student selects.

These programs are available to all students 18 years and older, students under the age of 18 must provide parental permission to attend. There are no transcripts, or standardized testing requirements to attend these courses.

Assistance with resume preparation and work search is provided at no additional cost near the end of the program.

CONSTRUCTION MANAGEMENT PROGRAM DESIGN FOR 11TH GRADE STUDENTS – HIGH SCHOOL JUNIORS

CERTIFICATE IN CONSTRUCTION MANAGEMENT 11TH GRADE STUDENT SCHEDULE				
FALL SEMESTER I - 11TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	HRS
CD 405 Basic to Intermediate Blueprint Reading	M/Th	18	6:30-9:00 pm	45
CD 466 Construction Project Organization and Management	W	7	6:30-9:00 pm	21
SUB TOTAL				66
SPRING SEMESTER II - 11TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	HRS
CD 582 Construction Estimating Basics	T	13	6:00-8:00 pm	26
CD 125 Construction Site Management	W	8	6:30-9:00 pm	20
SUB TOTAL				46
FALL SEMESTER III - 12TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	HRS
CD 580 Construction Project Scheduling I, Oracle Primavera P6	M	7	6:30-9:00 pm	21
CD 459 Contract Documents, Law, Ethics Best Practices and Insurance	S	6	9:00am-12:00pm	18
SUB TOTAL				39
SPRING SEMESTER IV - 12TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	HRS
CD 133 30-hr OSHA Construction Industry Safety Training	T/TH	12	6:00-9:00 pm	32
CD 132 Fundamentals of Construction Safety Management & Emergency Planning	T	8	6:30-9:00 pm	20
SUB TOTAL				52
TOTAL HOURS				203
Textbooks & Materials Not Included Unless Indicated				
Successful completion of 200 HRS of training are required to earn: Certificate in Construction Management				

Textbooks & Materials: Please note textbooks are not included, contact the campus book store at 201-445-7174 or visit the CE section of the campus library to use course texts. www.bergenstore.com

Course	Textbooks
CD 124 CD 582	<i>Fundamentals of Construction Estimating</i> , Author: D. Pratt, 4 th Ed., ISBN:9781439059647, Pub.: Cengage Learning/eBook https://www.cengage.com/c/fundamentals-of-construction-estimating-4e-pratt/9781337399395PF/
CD 136 CD 405	<i>Building Trades Print Reading Part 2 – Residential & Light Commercial Construction</i> , 6thEd. <i>Building Trades Print Reading Part 2 “Plans”</i> , ISBN: 9780826904843, 2016, Publisher: American Technical Publishers

CD 466	Construction Project Management: A Complete Introduction , Author: Allison Dykstra, 2nd Edition, ISBN 9780982703434, Publisher: Kirshner Publishing Co Inc.
--------	--

CONSTRUCTION MANAGEMENT PROGRAM DESIGN FOR 12TH GRADE STUDENTS – HIGH SCHOOL SENIORS

CERTIFICATE IN CONSTRUCTION MANAGEMENT				
12TH GRADE STUDENT SCHEDULE				
FALL SEMESTER I - 12TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	Hrs
CD 405 Basic to Intermediate Blueprint Reading	M/Th	18	6:30-9:00 pm	45
CD 466 Construction Project Organization and Management	W	7	6:30-9:00 pm	21
CD 580 Construction Project Scheduling I, Oracle Primavera P6	M	7	6:30-9:00 pm	21
CD 459 Contract Documents, Law, Ethics Best Practices and	S	6	9:00am-12:00pm	18
SUB TOTAL				105
SPRING SEMESTER II - 12TH GRADE STUDENTS				
Course	Day(s)	Sessions	Class Time	HRS
CD 133 30-hr OSHA Construction Industry Safety Training	T/TH	12	6:00-9:00 pm	32
CD 125 Construction Site Management	W	8	6:30-9:00 pm	20
CD 582 Construction Estimating Basics	T	13	6:00-8:00 pm	26
CD 132 Fundamentals of Construction Safety Management & Emergency Planning	T	8	6:30-9:00 pm	20
SUB TOTAL				98
TOTAL HOURS				203
Textbooks & Materials Not Included Unless Indicated				
Successful completion of 200 HRS of training are required to earn: Certificate in Construction Management				

Textbooks & Materials: Please note textbooks are not included, contact the campus book store at 201-445-7174 or visit the CE section of the campus library to use course texts. www.bergenstore.com	
Course	Textbooks
CD 124 CD 582	Fundamentals of Construction Estimating , Author: D. Pratt, 4 th Ed., ISBN:9781439059647, Pub.: Cengage Learning/eBook https://www.cengage.com/c/fundamentals-of-construction-estimating-4e-pratt/9781337399395PF/
CD 136 CD 405	Building Trades Print Reading Part 2 – Residential & Light Commercial Construction , 6thEd. Building Trades Print Reading Part 2 “Plans” , ISBN: 9780826904843, 2016, Publisher: American Technical Publishers
CD 466	Construction Project Management: A Complete Introduction , Author: Allison Dykstra, 2nd Edition, ISBN 9780982703434, Publisher: Kirshner Publishing Co Inc.

