

## HIGH SCHOOL DUAL CREDIT

# GATEWAY TO ARCHITECTURE AND CONSTRUCTION

The Gateway to Architecture and Construction Certificate Program offers high school students in dual credit courses a chance to explore career-focused classes while earning college credits. This certificate provides a jumpstart for high school students with a career interest in architecture and construction. Students will explore careers in designing, planning, managing, building, and maintaining the built environment. **View the certificate course plan and potential degree paths below!**

## CERTIFICATE COURSEWORK PLAN

If you are considering a career in architecture and construction, the courses in the certificate plan below will help you explore that path. \*Completing these courses not only qualifies for an undergraduate certificate but contributes to degree progress within the featured business programs at South Dakota's public universities. Courses that comprise the certificate may count toward general education requirements, major requirements, or electives, depending on your chosen major and university.

### COURSEWORK

*Take one of the following:*

<b>DSGN 100</b>	Survey of the Built Environment Professions
<b>CEE 274</b>	Construction Engineering & Management

*Take one of the following:*

<b>ART 111</b>	Drawing I
<b>ARTH 100</b>	Art Appreciation
<b>ARTH 211</b>	History of World Art I
<b>GDES 101</b>	Computer Graphics

*Take one of the following:*

<b>MATH 114</b>	College Algebra
<b>MATH 120</b>	Trigonometry

*Take one of the following:*

<b>ENGL 101</b>	Composition I
<b>CMST 101</b>	Foundations of Communication

### INDIVIDUAL STUDENT OUTCOMES

- Identify and describe the roles, responsibilities, and collaborations of key professions within the built environment.
- Describe basic design principles, concepts, media and formats.
- Demonstrate competence in mathematical principles and techniques essential for advanced study in the built environment professions.
- Develop communication skills necessary for teamwork in design projects.

\*Students who do not complete the certificate coursework in high school can still earn the credential while attending a participating South Dakota public university.



### POTENTIAL DEGREE PATHS

#### BLACK HILLS STATE UNIVERSITY

Career & Technical Education Teaching  
Graphic Design  
Studio Art

#### NORTHERN STATE UNIVERSITY

Digital Media  
Studio Art  
Business Administration  
Management

#### SOUTH DAKOTA MINES

Civil Engineering

#### SOUTH DAKOTA STATE UNIVERSITY

Architecture  
Community and Regional Planning  
Concrete Industry Management  
Construction Management  
Construction Technology  
Interior Design  
Landscape Architecture