

University of Iowa

Art Building Replacement

Cost:

Total Project: \$72,000,000
Construction: \$51,300,000
MEPT Const: \$13,000,000

Owner:

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This project provides a new building to replace the existing facility that was damaged by a flood. The building will provide classroom space, auditorium space, seminar space, industrial type studio space, administrative support space, and gallery space. To address the wide variety of existing systems, Design Engineers has worked closely with users to determine the best solutions for each application.

The scope of mechanical work includes installation of a custom air handling unit with separate sensible and total energy recovery air streams, steam and chilled water interface to campus utilities, thermal active slab radiant cooling and heating system, heat recovery chillers connected to the campus chilled water system, atrium smoke management system, fume hood exhaust, specialty exhaust systems for foundry, painting, printmaking and ceramics, compressed air, natural gas, acetylene, domestic hot and cold water, acid waste and vent, hydronic snow melt, and building automation system.

The electrical scope of work includes the installation of lighting, lighting controls, normal and emergency power and addressable fire alarm systems. Lighting systems include automatic daylight harvesting and specialty lighting for select areas such galleries, studios and workshops. In addition, the project includes a new 15kV primary and 480V secondary electrical service entrance and distribution for the entire building along with a 150kW emergency generator. Telecommunications systems for the project were also provided in accordance with University standards. The project includes a new cabling plant for the entire building.