Department of Construction Science

Currently, programs are offered at the undergraduate level only.

Construction Science and Management (CSM) Courses

CSM 5133. Construction Practice in a Global Setting. (3-0) 3 Credit Hours.
Seminar dealing with national and international business and legal environments in the construction industry. Topics include agreement and delivery options, forms of construction, project procedures and administration, liability, contract documents, and ethics.

CSM 5223. Building Information Modeling for Construction Management. (3-0) 3 Credit Hours.
Advanced techniques used in development and management of Building Information Models. Emphasis on constructability and management.

CSM 5243. Sustainable Construction and Delivery. (3-0) 3 Credit Hours.
Sustainability principles applied to design, construction and operation of built environment. Emphasis on site management and constructability.

CSM 5413. Advanced Topics in Construction Systems. (1-4) 3 Credit Hours.
The management of the construction process pertaining to large, complex, and unique buildings. The management of sustainable construction, adaptive use of existing buildings, and historic preservation projects will be included. (Formerly ARC 5413. Credit cannot be earned for both CSM 5413 and ARC 5413).

CSM 5423. Advanced Topics in Project Controls and Scheduling. (3-0) 3 Credit Hours.
Advanced techniques used in scheduling and planning processes in construction project control, including resource allocations and schedule recovery.

CSM 5433. Construction Safety Planning and Management. (3-0) 3 Credit Hours.
Current construction safety and health issues. Development of site-specific plans and methodology to provide hazard reduction on job sites.

CSM 5633. Advanced Construction Management. (3-0) 3 Credit Hours.
Prerequisite: Consent of instructor. Organization and integration of construction resources and activities to include consideration of ethical practice, scheduling, methods of construction, project planning and management, cost accounting, and personnel utilization.

CSM 6943. Construction Internship. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing and permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the degree.

CSM 6951. Independent Study. (0-0) 1 Credit Hour.
Prerequisites: Graduate standing and permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the degree.

CSM 6953. Independent Study. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing and permission in writing (form available) of the instructor and the Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours will apply to the degree.

CSM 6973. Special Topics. (3-0) 3 Credit Hours.
Prerequisite: Graduate standing or consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 hours of CSM 6973 or 12 hours of CSM 6976 will apply to the degree.

CSM 6976. Special Topics. (6-0) 6 Credit Hours.
Prerequisite: Graduate standing or consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when topics vary, but not more than 6 hours of CSM 6973 or 12 hours of CSM 6976 will apply to the degree.