



**SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS**

New Course Request

SDSU	Arts, Humanities & Social Sciences / School of Design
Institution	Division/Department
Dennis D. Hedge	4/29/2020
Institutional Approval Signature	Date

Section 1. Course Title and Description

Prefix & No.	Course Title	Credits
ARCH 433	Technology of Structures	3
ARCH 533	Technology of Structures	3

Course Description
The course builds both an intuitive and empirical understanding of the basic principles of systems thinking in architecture through mechanical study and integrative analysis of building structure performance in space and against gravity.

ARCH 433 Pre-requisites or Co-requisites

Prefix & No.	Course Title	Pre-Req/Co-Req?
PHYS 111-111L	Introduction to Physics I	Prerequisite

Registration Restrictions

None

Section 2. Review of Course

2.1. Was the course first offered as an experimental course? Yes No

2.2. Will this be a unique or common course?

Unique Course

Prefix & No.	Course Title	Credits
GE 241	Applied Mechanics	3
CM 353-353L	Construction Structures and Lab	3

Provide explanation of differences between proposed course and existing system catalog courses below:

GE 241 and CM 353-353L are an additive pair of courses for engineering and construction management students. Architecture requires less hard calculation and less review of specific technologies and a more intensive instruction in intuitive structures and more theoretical content in systems thinking and its integration in design decision making in a more compressed fashion. This change addresses a concern illuminated in the 2016 professional accreditation visit.

Section 3. Other Course Information

3.1. Are there instructional staffing impacts?

No. Schedule Management, explain below: The Department will decrease the number of sections taught in an academic year by consolidating credit hours and altered the length of the M.Arch. program.

3.2. Existing program(s) in which course will be offered: Architecture (B.F.A.)

3.3. Proposed instructional method by university: R - Lecture

3.4. Proposed delivery method by university: 001 – Face to Face Term Based Instruction

3.5. Term change will be effective: Fall 2020

3.6. Can students repeat the course for additional credit? Yes, total credit limit: No

3.7. Will grade for this course be limited to S/U (pass/fail)? Yes No

3.8. Will section enrollment be capped? Yes, max per section: No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report? Yes No

3.10. Is this prefix approved for your university? Yes No

Section 4. Department and Course Codes (Completed by University Academic Affairs)

4.1. University Department Code: SDSG

4.2. Proposed CIP Code: 04.0201

Is this a new CIP code for the university? Yes No

**NEW COURSE REQUEST
Supporting Justification for On-Campus Review**

<u>Brian Rex</u>	<u>Brian Rex</u>	<u>11/11/2019</u>
Request Originator	Signature	Date
<u>Pat Crawford</u>	<u>Pat Crawford</u>	<u>2/3/2020</u>
Department Chair	Signature	Date
<u>Jason Zimmerman</u>	<u>Jason Zimmerman</u>	<u>2/3/2020</u>
School/College Dean	Signature	Date

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

The professional curriculum was begun utilizing 18 credit hours of courses taught in Construction Management. The teaching of building structures and building systems via CM courses has received steady criticism in accreditation reports. This change in curriculum affords the major unit to take up this teaching architecture as systems thinking and address this issue. This course will take the place of GE 241 and CM 353-353L. Architecture requires less hard calculation and less review of specific technologies and a more intensive instruction in intuitive structures and more theoretical content in systems thinking and its integration in design decision making in a more compressed fashion.

2. Note whether this course is: Required Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?
None

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.

Students taking the graduate level version of the course will be expected to produce a more sophisticated and extensive course research project and to provide significant reflection writing not expected of the enrolled undergraduate students.

5. Desired section size 20

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).

Jessica Garcia Fritz, Assistant Professor, M.Arch
Robert Arlt, Instructor, M.Arch.
Federico Garcia Lammers, Assistant Professor, M.Arch
Brian Lee, Instructor, M.Arch
Ben Pennell, Instructor, M.Arch
Brian Rex, Associate Professor, M.Sc.Adv.Arch.Design
Fang Xu, Instructor, Ph.D.

7. Note whether adequate facilities are available and list any special equipment needed for the course.
No special equipment is needed and adequate facilities are available.
8. Note whether adequate library and media support are available for the course.
There is adequate library and media support available.
9. Will the new course duplicate courses currently being offered on this campus? Yes No
10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.
N/A