ARCH 121IA. Introduction to Design. 3 Credits. (2 Lec) F,S,Su
PREREQUISITE: For majors and non-majors. Introduction to the design and creative process through global architecture and allied professions. Exploration of the history of design. Emphasis on 20th and 21st century architecture. Individual projects where students apply and explore creative process are required.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10287 | 001 | May-start: 4x6 | MTR | CHEEVE131 | 8:00am - 10:35am Semester
2020 Summer | 10288 | 002 | May-start: 4x6 | W | CHEEVE131 | 8:00am - 10:35am Semester

ARCH 151RA. Design Fundamentals I. 4 Credits. (2 Lec, 2 Lab)
A study of the creative design process with emphasis on two-dimensional design, basic three dimensional design concepts and introduction to the essential tools for graphic communication. Development of students' self-critical skills.

Term | CRN | Section | Session/Dates | Days | Location | Time  
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2020 Summer | 10310 | 001 | June-start: 4x6 | MTWR | CHEEVE145 | 12:10pm - 4:00pm Semester

ARCH 152IA. Design Fundamentals II. 4 Credits. (3 Std, 1 Lec)
A study of the design process and methods employed by design disciplines as an introduction to architectural principles, architectural graphic skills and further understanding of the creative process. Development of student’s ability to make critical and analytical judgments.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10813 | 001 | July-start: 4x6 | MTWR | CHEEVE145 | 12:10pm - 4:00pm Semester

ARCH 253. Architectural Design I. 5 Credits. (1 Lec, 4 Lab) F
PREREQUISITE: Successful Completion of ARCH 151RA and ARCH 152IA Small-scale design projects requiring integration of spatial, visual concepts, emphasizing relationship of architecture to its context with principles of order, constituents of form, light, structural awareness, nature of materials, architectural coherency. Includes inclusive orthographic graphics design drawing conventions.

Term | CRN | Section | Session/Dates | Days | Location | Time  
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2020 Summer | 10684 | 001 | Full Semester | MTR | CHEEVE145 | 1:10pm - 5:00pm Semester

ARCH 254. Architectural Design II. 5 Credits. (1 Lec, 4 Lab) S
PREREQUISITE: ARCH 253 Small to medium-size projects extending the development of the design process to site and adjacency analysis, diagramming, fundamental relationship to landscape and context. Topics include hybrid uses of hand and digital graphic communication including 2D and 3D drawing and modeling.

Term | CRN | Section | Session/Dates | Days | Location | Time  
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2020 Summer | 10685 | 001 | Full Semester | MTR | CHEEVE145 | 1:10pm - 5:00pm Semester

ARCH 355. Architectural Design III. 5 Credits. (1 Lec, 4 Lab) F,Su
PREREQUISITE: ARCH 254. Further exploration of ecologically-sound design with emphasis on the integration of structures, building envelope service systems, and building materials, including design for life safety and accessibility. Building scale and program complexity increases, utilizing long-span structural systems. Notebook computer required. Field trip required.

Term | CRN | Section | Session/Dates | Days | Location | Time  
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2020 Summer | 10686 | 001 | Full Semester | MTR | CHEEVE145 | 1:10pm - 5:00pm Semester

ARCH 356. Arch Design IV. 5 Credits. (1 Lec, 4 Lab) S
PREREQUISITE: ARCH 355. Advanced architectural design projects integrating site analysis, programming, building systems, and contemporary design theory. Emphasis placed on the inclusive synthesis of conceptual processes, analysis preliminary design investigation, and design development. Notebook computer required.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10799 | 001 | Full Semester | MTR | CHEEVE145 | 1:10pm - 5:00pm Semester

ARCH 414. Architectural Study Abroad. 9 Credits. (6 Lec, 3 Ind) F,Su
PREREQUISITE: ARCH 356. COREQUISITE: ARCH 428. Structured study in foreign countries under the direction of an architecture faculty member to obtain an understanding of modern and historical architecture and the forces shaping them. Holistic study of urban environments combines design, urban design, architectural history, drawing, and pre-travel design and research. Itineraries include opportunities for additional destinations and independent travel.

Term | CRN | Section | Session/Dates | Days | Location | Time  
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2020 Summer | 10528 | 001 | Full Semester | - | - Semester

ARCH 428. Foreign Study History. 3 Credits. (2 Lec, 1 Ind) F,Su
PREREQUISITE: ARCH 356. COREQUISITE: ARCH 414. An on-site study in a foreign country of the social, cultural, and historic influences on architectural design. This course is only offered in conjunction with the foreign study program within the School of Architecture. Course shall include research on-site visits documented in an appropriate media form.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10529 | 001 | Full Semester | - | - Semester

ARCH 431. Sustainability in Architecture. 3 Credits. (3 Lec) F,S,Su
PREREQUISITE: ARCH 332 and ARCH 356. Architectural and site strategies for reducing the energy footprint of structures and spaces with an emphasis on the profession’s ethical responsibility and techniques that maximize the potential of active and passive design strategies to sustain our natural resources.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10801 | 801 | Non-standard | - | - Semester
term dates 18- MAY-20 07- AUG-20

ARCH 450. Community Design Center. 5 Credits. (1 Lec, 4 Lab) F,Su
PREREQUISITE: ARCH 356. The CDC assists public and non-profit groups by providing planning, programming, and conceptual design ideas. Emphasis and scope of projects are determined by the community needs. Projects are intended to complement and promote the professional practice of architecture in the State of Montana.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 11235 | 801 | First Half | - | ONLINEWEB- Semester
2020 Summer | 11263 | 001 | Full Semester | MTR | CHEEVE207 | 8:00am - 4:00pm Semester

ARCH 451. Design for Community. 1-3 Credits. (3 Ind; 6 cr max) On Demand
PREREQUISITE: ARCH 355. Students will be engaged in architecturally-related activities with government and non-profit agencies. This will enable students to be involved in a service learning academic experience.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10697 | 001 | July-start: 4x4 | MTWR | CHEEVE125 | 8:00am - 10:35am Semester

ARCH 457. Architectural Design V. 5 Credits. (1 Lec, 4 Lab) S,Su
PREREQUISITE: ARCH 356. Senior capstone course. Architectural design integrating building, landscape, and urban context using multi-story projects of medium scale and complexity with particular focus on mixed-use. Integrated topics include programming structural and mechanical integration, ecologically-sound design, building envelope systems and building codes.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 10800 | 001 | Full Semester | MTR | CHEEVE145 | 1:10pm - 5:00pm Semester

ARCH 458. Arch Design VI. 5 Credits. (1 Lec, 4 Lab) S
PREREQUISITE: ARCH 356 A continuation of the holistic design synthesis encountered in ARCH 356 with emphasis on development of student’s emerging design values and theoretical perspective. Field trip possible. Notebook computer required.

Term | CRN | Section | Session/Dates | Days | Location | Time  
--- | --- | --- | --- | --- | --- | ---
2020 Summer | 11363 | 001 | Full Semester | - | - Semester
ARCH 471. Directed Research/Creative Act. 1-6 Credits. (1-6 Ind; max unlimited) 
ES,Su
COREQUISITE: ARCH 472. Directed research/creative activity which may culminate in a research paper, journal article, or design project. May be repeated.

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ARCH 525. Special Design Topic. 3 Credits. (3 Lab; 12 cr max) ES,Su
PREREQUISITE: Graduate standing or seniors by petition. Students will work under the direction of a faculty member in the research, design, development and presentation of a design, research, or historic preservation project. May be repeated as topics vary.

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ARCH 543. Advanced Applied Design and Construction. 3 Credits. (3 Lab; max 6 cr) On Demand
PREREQUISITE: Graduate standing or Seniors by petition. Small scale projects industrial products, furniture, buildings, etc., will be designed and built by students as an exploration of the opportunities and limitations of materials, technology, economics, and construction methods.

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ARCH 551. Advanced Arch Studio. 6 Credits. (4 Lab, 2 Stu) S,Su
PREREQUISITE: Graduate Standing. Design projects which explore specific critical positions with regard to contemporary architectural issues. Research and analysis of theoretical positions are emphasized along with the development of contemporary methods and techniques for analysis. Field trip required.

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