ARCH - Architecture

ARCH 1211A. 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.

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<th>Term</th>
<th>CRN</th>
<th>Section</th>
<th>Session Dates</th>
<th>Days</th>
<th>Location</th>
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<tbody>
<tr>
<td>2018 Summer</td>
<td>10401</td>
<td>001</td>
<td>May Start</td>
<td>MTR</td>
<td>CHVR131</td>
<td>8:00am - 10:35am</td>
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<tr>
<td>2018 Summer</td>
<td>10402</td>
<td>002</td>
<td>May Start</td>
<td>W</td>
<td>CHVR131</td>
<td>8:00am - 10:35am</td>
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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.

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<td>001</td>
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<td>MTWR</td>
<td>CHVR207</td>
<td>8:00am - 11:50am</td>
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ARCH 152A. 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 architectonic principles, architectural graphic skills and further understanding of the creative process. Development of student's ability to make critical and analytical judgments.

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<td>2018 Summer</td>
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<td>July-start: 4x4</td>
<td>MTWR</td>
<td>CHVR207</td>
<td>8:00am - 11:50am</td>
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ARCH 231CS. Issues in Sustainability. 3 Credits. (3 Lec) On Demand
Introduction to concepts and practices intended to create more sustainable communities where present generations are accountable for the needs of future generations and the natural environment. The course will explore current multi-disciplinary practices in "ecological design".

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ARCH 253. Architectural Design I. 5 Credits. (1 Lec, 4 Lab) F
PREREQUISITE: Successful Completion of ARCH 151RA and ARCH 152A.
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.

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<td>CHVR207</td>
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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.

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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.

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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.

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ARCH 414. Architectural Study Abroad. 9 Credits. (6 Lec, 3 Ind) F, S, Su
PREREQUISITE: ARCH 356. COREQUISITE: ARCH 414. Studied 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.

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ARCH 425. West Architectural History. 3 Credits. (3 Semi; 6 cr max) On Demand
PREREQUISITE: ARCH 322IA and ARCH 323IA. A study of events and influences that led to the development of western architectural styles, ideology, and forms of individual expression.

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ARCH 426. History of Identity of Contemporary Places. 3 Credits. (3 Lec; 6 cr max) On Demand
PREREQUISITE: ARCH 322IA and ARCH 323IA. A course in applied architectural history and theory. Lectures, discussions, and student projects investigate characteristics which convey a sense of place based on historical development, architectural styles, and urban design.

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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.

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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.

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Notebook computer required. Field trip required.
ARCH 450. Community Design Center. 5 Credits. (Lec, 4 Lab) F,S,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.

PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, building envelope systems and building codes.

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.

ARCH 452. Historical Issues in Arch. 3 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Close examination of historic periods and individuals. Emphasis upon in-depth studies of particular personalities and the social, cultural, artistic and scientific developments that influenced the progress of architecture, urban design and city planning. May be repeated.

ARCH 453. Advanced Applied Design and Construction. 3 Credits. (Lab; max 6 cr) On Demand
PREREQUISITE: Graduate standing or Seniors by petition. Small scale 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.

ARCH 454. Seminar. 1-3 Credits. (1-3 Sem; 4 cr max) F,S,Su
PREREQUISITE: ARCH 453. 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.

ARCH 455. 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.

ARCH 456. Arch Design VI. 5 Credits. (1 Lec, 4 Lab) S,Su
PREREQUISITE: ARCH 455. Advanced 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.

ARCH 471. Directed Research/Creative Act. 1-6 Credits. (1-6 Ind; max unlimited) F,S,Su
COREQUISITE: ARCH 472. Directed research/creative activity which may culminate in a research paper, journal article, or design project. May be repeated.

ARCH 472. Directed Research/creative Act. 1-6 Credits. (1-6 Ind; max unlimited) F,S,Su
COREQUISITE: ARCH 471. Directed research/creative activity which may culminate in a research paper, journal article, or design project. May be repeated.

ARCH 473. Advanced Architectural Design. 6 Credits. (3 Sem; 9 cr max) F,S,Su
PREREQUISITE: ARCH 472. Critical positions with regard to contemporary architectural issues. Research and examination of the psychological, existential and traditional meaning and consequential sense of place in our natural and built environment.

ARCH 474. Seminar. 1-3 Credits. (1-3 Sem; 4 cr max) F,S,Su
PREREQUISITE: Junior standing and as determined for each offering. Topics offered at the upper division level which are not covered in regular courses.

ARCH 475. Advanced Architectural Design. 6 Credits. (3 Sem; 9 cr max) F,S,Su
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 476. Special Design Topic. 3 Credits. (3 Lab; 12 cr max) F,S,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.

ARCH 477. Architecture: Meaning & Place. 3 Credits. (3 Sem; 9 cr max) F,S,Su
On demand PREREQUISITE: Graduate standing or Seniors by petition Close examination of the psychological, existential and traditional meaning and consequential sense of place in our natural and built environment.

ARCH 478. Arch Design VI. 5 Credits. (1 Lec, 4 Lab; 12 cr max) On Demand
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.

ARCH 494. Seminar. 1-3 Credits. (1-3 Ind; max unlimited) F,S,Su
PREREQUISITE: ARCH 493. Junior standing and as determined for each offering. Topics offered at the upper division level which are not covered in regular courses. Students participate in preparing and presenting discussion material.

ARCH 495. Advanced Architectural Design. 6 Credits. (3 Sem; 9 cr max) F,S,Su
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 496. Advanced Architectural Design. 6 Credits. (3 Sem; 9 cr max) F,S,Su
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 521. Arch Theory. 3 Credits. (3 Sem; 9 cr max) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 522. Historical Issues in Arch. 3 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Close examination of historic periods and individuals. Emphasis upon in-depth studies of particular personalities and the social, cultural, artistic and scientific developments that influenced the progress of architecture, urban design and city planning. May be repeated.

ARCH 523. Special Design Topic. 3 Credits. (3 Lab; 12 cr max) F,S,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.

ARCH 524. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or Seniors by petition. Small scale projects include programming structural and mechanical integration, ecologically-sound design, building envelope systems and building codes.

ARCH 525. Special Design Topic. 3 Credits. (3 Lab; 12 cr max) F,S,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.

ARCH 526. Architecture: Meaning & Place. 3 Credits. (3 Sem; 9 cr max) F,S,Su
On demand PREREQUISITE: Graduate standing or Seniors by petition Close examination of the psychological, existential and traditional meaning and consequential sense of place in our natural and built environment.

ARCH 527. Architecture: Meaning & Place. 3 Credits. (3 Sem; 9 cr max) F,S,Su
On demand PREREQUISITE: Graduate standing or Seniors by petition Close examination of the psychological, existential and traditional meaning and consequential sense of place in our natural and built environment.

ARCH 543. Advanced Applied Design and Construction. 3 Credits. (Lab; max 6 cr) On Demand
PREREQUISITE: Graduate standing or Seniors by petition. Small scale projects include programming structural and mechanical integration, ecologically-sound design, building envelope systems and building codes.

ARCH 544. Seminar. 1-3 Credits. (1-3 Sem; 4 cr max) F,S,Su
PREREQUISITE: ARCH 493. Junior standing and as determined for each offering. Topics offered at the upper division level which are not covered in regular courses. Students participate in preparing and presenting discussion material.

ARCH 545. Advanced Architectural Design. 6 Credits. (3 Sem; 9 cr max) F,S,Su
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 546. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 547. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 548. Arch Design VI. 5 Credits. (1 Lec, 4 Lab; 12 cr max) On Demand
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.

ARCH 549. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 550. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.

ARCH 551. Advanced Arch Studio. 6 Credits. (4 Lab, 2 Sbu) 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.

ARCH 552. Historical Issues in Arch. 3 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Close examination of historic periods and individuals. Emphasis upon in-depth studies of particular personalities and the social, cultural, artistic and scientific developments that influenced the progress of architecture, urban design and city planning. May be repeated.

ARCH 553. Special Design Topic. 3 Credits. (3 Lab; 12 cr max) F,S,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.

ARCH 554. Advanced Architectural Design. 6 Credits. (3 Sem; max unlimited) On Demand
PREREQUISITE: Graduate standing or seniors by petition. Specific architectural, urban, planning and preservation theories, their application and context within contemporary practice will be investigated through the study of essays, drawings, models and built projects. May be repeated.
Font Notice
This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.