

**Elective Courses for Semester 2/2021**  
**(January 1, 2022)**

**ARC 356 Landscape Architecture II**

**3(2-2-6)**

This course emphasizes on the profession of Landscape Architecture and its role within Urban Planning: knowledge of site planning and landscape architecture that involve more complicated factors of human behavior, social, cultural, and urban contexts. The complexity of site engineering, site drainage system, ecological system, local community. Vehicular and pedestrian circulation. Designating different structures by selecting and analyzing a site, forming a land use plan. Theory and history of landscape architecture. Aspects of park system and urban space atmosphere are the crucial topics for creating the design that unify architecture, human and all aspects of nature together seamlessly. Readjusting the existing landform design grading, providing proper drainage. Developing the construction details connecting structure and landform.

**ARC 432 Computational Design and Digital Fabrication**

**3(3-0-6)**

The course aims to introduce the concepts and applications of computation in architecture and design. It aims to provide the basic skills to build and control parametric models, analysis tools and introduction to the basic machine operation of the fabrication tools such as laser cutter, CNC and rapid prototyping and how it may relate to the contemporary architectural discourses in the form of design tools and interactive presentations.

**Remark: Only 3<sup>rd</sup> year Architectural students are required to register this course to support studio class**

**ARC 452 Special Topic Study: Revit****3(2-2-6)**

Technology and innovation have rapidly changed the way we work. Our current skillset and toolset will be outdated within a decade. Do we have enough essential knowledge to thrive in the future of the professional world?

Preparing you for your career in architectural business and entrepreneurship, we will be exploring advanced Revit modeling techniques and other technologies in architecture. Training yourself to acquire early entrepreneurial mindset will help accelerate your future career development.

We will also learn about the art of negotiation and cognitive biases in architectural work from real case studies. This class is great for those who are enthusiastic in businesses and seek for opportunities beyond the architecture realm. An intermediate level of Revit knowledge is required.

**ARC 461 Building Materials and Construction IV****3 (2-2-6)**

To study the principles in making the architectural detailing documents and detailing schedule of various building types. Preparation of the architectural accessories and presentation technique.

**INA 314 Aesthetics****3(2-2-6)**

An investigation into appreciation of design philosophy in form and other elements and the meaning of aesthetic values in relation to other elements of architecture and interior architecture.

**INA 352 Lighting Design****3(2-2-6)**

This class introduces design considerations and processes, tools and techniques for creating quality lighting of major interior applications. These include retail, working environment, hospitality and museum & gallery lighting. It also gives an overview of current building codes and standards as well as an appropriate use of lighting equipment and control systems to ensure both lighting quality and sustainability. The class is delivered through lectures, hands-on experiments and field-trips. And the students will have an opportunity to apply the theoretical knowledge on design projects, using various tools for presentation and evaluation of the design concepts.

**INA 454 STS: Physical Model Making for Architectural Study and Presentation****3(1-4-6)**

This course aims to introduce students various techniques of architectural representation through physical model making, along with the appropriate models for each design phase.

**IND 232 Craft Product Design****3(2-2-6)**

Principles of handicraft and industrial craft design. Aesthetics, values, design and making processes of handicrafts. Exploration of materials and techniques.

**IND 257 Special Topic Study: Leather Design Appreciation****3(1-4-6)**

Introduction to materials by types, functions, look and feel, and the usage. Learning by doing of craft and hand make leather, by using different of tools, stitch type, and finishing. Finally will learn and Design leather products by creating the final and complete the project from start to finish the production process.

**IND 371 Service Design****3(2-2-6)**

Designing total experience of customers/people in commercial or non-commercial projects that required strategies to attract, engage, and enhance the interaction satisfaction between service providers and customers. Application of systematic approach to creative thinking methods and tools for identifying the relationship among activities, infrastructure, and product or communication channels for designing pleasant service experience.

**IND 431 Behavioral Analysis and Design****2(2-2-6)**

Human perceptual, cognitive and behavioral reactions. Human interactions with machines, product and environments. Application to design.

## **CMD 362 Special Topic Study: Advance Practice in Simulation and Modeling**

**3(2-2-6)**

### **Prerequisite: CMD 345 Simulation and Modeling**

Advance practice of Digital modeling. Ways of simulating object, environments and experiences using digital media (e.g VR, AR). Develop the skill of drawing for analyze the structures as media for articulate the ideas, and use of 3D creation software as tools for planning and realizing projects.

## **CMD 364 Web Design**

**3(2-2-6)**

This course introduces students to the web design and development lifecycle. The course focuses on theory, tools, techniques and standard in the design phase including layout design, interface design, components of web e.g. typography, color, media, contents, etc. It also covers the standards and trend in modern web design such as responsive web design (RWD) and other modern concepts in web design. The practical exercises cover the usage of tools and techniques in design a web including the implementation of design into a real web site using a current available instant web implementation tools.

## **CMD 365 Web Development for Designers**

**3(1-4-6)**

This course introduces students to development concepts, processes, standards, tools, and techniques that use to create a modern web site. The course includes practical exercises on creating web pages using modern concepts, tools, and techniques.