

USC Iovine and Young Academy

*Arts, Technology and the Business
of Innovation*

Spring 2021 Minor/Non-Major Course Offerings

ACAD-260 Introduction to Healthcare Innovation (M/W 12-1:50pm)

Introductions to various health innovations, including pathways, technology, techniques and outcomes. A framework for innovation in healthcare and overview of tools for health innovators.

ACAD-181 Disruptive Innovation – Social Analysis GE (M/W 6-7:50pm)

Critical approaches to social and cultural changes stemming from disruptive innovations in the arts, science, technology, communications, new media, politics and business. **Note: Must be a declared Academy minor to enroll.**

ACAD-177 Digital Toolbox for Design (W 5-7:50pm)

Basics of industry-standard creative, analytical and presentation software. Applications include design, illustration, presentation and publishing.

ACAD-176 Rapid Visualization (M/W 5-7:50pm)

Techniques, methods, concepts, tools, and materials that are used to quickly visualize and communicate ideas and develop problem-solving skills.

ACAD-188 Digital Toolbox: Modeling Products I (T/Th 6-7:50pm- runs weeks 1-8)

Tools and techniques specific to CAD design and design improvements, focused on the ideation and development new products.

ACAD-189 Digital Toolbox: Modeling Products II (T/Th 6-7:50pm-runs weeks 9-16)

An investigation of the tools and techniques specific to intermediate CAD design and design improvements, focused on the ideation and development new products.

ACAD-207 Multimedia for Designers and Entrepreneurs I (M/W 2-4:50pm)

Basics of industry-standard hardware and software specific to creating effective and compelling multimedia experiences.

ACAD-240 Materials: Denim to Nanotubes (T/Th 3-4:50pm)

Covers the fundamentals of materials science and introduce students to the principles of designing with specific materials in mind.

ACAD-307 Multimedia for Designers and Entrepreneurs II (M/W 5-7:50pm)

Designing effective and compelling multimedia experiences, including through the application of intermediate tools and techniques related to state-of-the-art creative hardware and software.

Note: has a pre-requisite of ACAD-207

ACAD-255 Advancing Journalism through Human-Centered Design (T/Th 6-7:50pm)

Employing a human-centered design framework, students research and develop novel solutions to experience, collaboration and culture issues that pervade newsrooms worldwide.

ACAD-345 Product Design II (T/Th 2-4:45pm)

A thorough look into developing feasible consumer product through implementing all aspects of the R&D process, including consumer insights, competitive analysis, ideation and manufacturability.

Note: has a pre-requisite of ACAD-245

ACAD-324 The Practice of Design: Ideation to Innovation- Arts GE (T/Th 2-4:50pm)

History and application of proven collaborative design processes and methodologies as they relate to ideation and innovation.

ACAD-276 Dev II (T/Th 5-7:50pm)

Fundamentals of server-side scripting and web templates. Design and creation of data structures and databases. Visualize analytics and data.

Note: has a pre-requisite of ACAD-275

ACAD-281 Designing for Live Experiences (M/W 5:30-7:20pm)

Experience-based solutions for the design of branded environments and the development of prototypes that are entertaining, informational and inspirational.

Note: Has a pre-requisite of ACAD-176

***ACAD-187: Digital Toolbox: 3D Design (M/W 8-9:50am runs weeks 1-8)**

Basics of industry standard software for modeling and rendering 3D materials, objects and lighting. Includes instruction in pipelines for 3D assets.

***ACAD-178 Digital Toolbox: Motion Graphics (M/W 8-9:50am runs weeks 9-16)**

Basics of industry standard software for motion graphics, visual effects, animation design, generative art and interactive visual experiences.

***ACAD-245 Product Design I (T/Th 6-8:50pm)**

An introductory course in learning how to design physical products, including the processes for determining consumer need, market opportunity and competitive product analysis.

Note: has a pre-requisite of ACAD-176 or DES 102

***ACAD-280 Designing for Digital Experiences (M/W 3-4:50pm)**

Designing elegant and powerful interfaces and experiences for the ways people interact with data, devices, systems and digital environments.

Note: Has a pre-requisite of ACAD-275

*Course is prioritized for Academy majors in the Spring. After all majors are registered, any remaining spots in the class will be open to Academy minors.