## BERKELEY CERTIFICATE IN DESIGN INNOVATION

### I lower division (2+ units)

**DESIGN FOUNDATIONS**

- **ART 8/8A**- Intro to Visual Thinking - 4u
- **ART W23AC**- Data Arts - 4u
- **DES INV 10**- Discovering Design - 2u
- **DES INV 15**- Design Methodology - 3u

**must be taken outside of home College or School**

- **ENV DES 1**- People & Environmental Design - 3u
- **ENV DES 4A**- Design & Activism - 3u
- **ENV DES 104**- Design Frameworks - 3u
- **THEATER 60**- Intro to Technical Theater & Production - 4u
- **UGBA 190T**- Needfinding in the Wild - 2u

**choose 2 (2+ units)**

**DESIGN SKILLS**

- **ARCH 11A**- Intro to Visual Representation & Drawing - 4u
- **ARCH 11B**- Intro to Design - 5u
- **ARCH 150**- Introduction to Structures - 4u
- **ARCH 160**- Introduction to Construction - 4u
- **DES INV 21**- Visual Communications & Sketching - 3u
- **DES INV 22**- Prototyping & Fabrication - 3u
- **DES INV 23**- Creative Programming and Electronics - 3u
- **DES INV 24**- User Experience Design - 3u
- **DES INV 190-001**- Design Thinking: Methods, Skills & Mindsets - 2u
- **DES INV 190-5**- Human-Centered Design Methods: Reimagining Sensing and Mobility - 2u
- **ENGIN 25**- Visualization for Design - 2u
- **ENGIN 26**- 3D Modeling for Design - 2u
- **ENGIN 27**- Intro to Manufacturing & Tolerancing - 2u
- **FILM 179**- Understanding Film Sound - 4u
- **LD ARCH 1**- Drawing a Green Future - 4u
- **LD ARCH 189**- Representation as Research: Contemporary Topics in Landscape Visualization - 3u
- **MUSIC 158A**- Sound and Music Computing with CNMAT Technologies - 4 units
- **THEATER 173**- Scenography: Scenic Design for Performance - 3u
- **THEATER 174**- Scenography: Costume Design for Performance - 3u
- **THEATER 175A**- Scenography: Lighting Design for Performance - 4u
- **THEATER 177**- Sound Design for Performance - 4u
- **THEATER 178**- Video Production for Performance - 3u
- **UGBA 190T**- Innovation and Design Thinking in Business - 2u

### I upper division (3+ unit course)

**ADVANCED DESIGN**

- **ART100/TDPS100/UGBA190T**- Collaborative Innovation - 4u
- **ART 178**- Game Design Methods - 4u
- **CIV ENG 186**- Design of Cyber-Physical Systems - 3u
- **COMPSCI 160**- User Interface Design & Development - 4u
- **COMPSCI 194-84/ME290U/DES INV 190E-1**- Interactive Device Design - 4u
- **CY PLAN 140**- Urban Design: City Building & Place Making - 3u
- **DES INV 190-1**- Reimagining Mobility: Design Development and Delivery - 3u
- **DES INV 190-2**- Global Product Development - 3u
- **DES INV 190-4**- Reimagining AR: Beyond the Headset - 3u
- **DES INV 190E-2**/ME 193C/ME 292C- Upper-Limb Prosthesis Design - 4u
- **IEOR 170**- Industrial Design and Human Factors - 3u
- **INFO 290-006**/DES INV 190-3**- Product Design Studio - 3u
- **INTEGBI C32/LZ 30Z**- Bioinspired Design - 3u
- **LD ARCH 111**- Plants in Design - 3u
- **ME 110/UGBA 190T**- Intro to Product Development - 3u
- **ME 122**- Processing Materials in Manufacturing - 3u
- **ME 150A**- Solar Powered Vehicles - 3u
- **ME 178**- Designing the Human Body - 3u
- **MUSIC 158B**- Situated Instrument Design for Musical Expression - 4u
- **NWMEDIA 190-3/DES INV 190-2**- Critical Practices - 4u
- **NWMEDIA C203**- Critical Making - 4u
- **THEATER 175B**- Scenography: Lighting Design for the Theater - 4u

Declaration of Intent to obtain the Certificate does not give you priority to register in these courses. Please check Berkeley Academic Guide for course prerequisites: [http://guide.berkeley.edu/courses](http://guide.berkeley.edu/courses)

DEs INV 90-4 is now DES INV 10; DES INV 90-1 now DES INV 15; DES INV 90-3 now DES INV 21; DES INV 90-2 now DES INV 22; DES INV 190-002 is now DES INV 24. Please check the names of the DES INV 190s as the numbering system is now being revised.

*\( u = \# \text{ of class units} \)

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