## APPROVED COURSES FOR THE BERKELEY CERTIFICATE IN DESIGN INNOVATION

### BERKELEY CERTIFICATE IN DESIGN INNOVATION

#### I lower division (2+ units)

**DESIGN FOUNDATIONS**

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

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

- ART W23AC- Data Arts - 4u

#### 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-S- 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
- COMPSCI 294-137/DES INV 190-4- Theory and Applications of Virtual Reality & Immersive Computing - 3u
- 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 190E-2/ME 193C/ME 292C- Upper-Limb Prosthetic 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- Critical Practices - 4u
- NWMEDIA C203- Critical Making - 4u
- THEATER 175B- Scenography: Lighting Design for the Theater - 4u
- UGBA 190T- Innovation and Design Thinking in Business - 2u

### 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)

### Notes

- DES INV 90-4 is now DES INV10; 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.

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