



# Kitchen and Dining

## OVERVIEW

Kitchens are complicated spaces with many varied activities and usage requirements. The kitchen needs to support a variety of appliances and accommodate different tasks, conversations, cooking and cleanup.



"INTER ACTIVE LIVING" ARCHITECT: TIMOTHY GARGIULO

## UNIVERSAL DESIGN FOR KITCHEN AND DINING

These varied tasks and the differences between cooking preferences requires flexibility and options in kitchen design.

Design the work surfaces at different heights, optimally between 32 inches and 42 inches, so that children, adults and seated persons can work effectively and comfortably. A raised dishwasher eases loading and unloading for a wide range of users.

Include sufficient space for several cooks at a time including space between and around cabinets.

Storage should be reachable, not just in wall cabinets and base cabinets with doors. A good option is pull-out shelves and drawers in base cabinets. Open wall shelving makes finding stored items easy.

Finally, provide a mix of natural and artificial lighting as well as additional task lighting, whether overhead or under cabinets.

# Home Today, Home Tomorrow Universal Design Toolkit For Architects and Builders



## About the toolkit

### DESIGN CHALLENGE

The features included in this Toolkit were selected from submissions to the **Home Today, Home Tomorrow Design Challenge competition** (watch the videos below for more on the competition and the winning design). The judges of the competition selected features that they felt were interesting and innovative and that could provide inspiration for designers, architects and homeowners. The Toolkit is not all inclusive of every universal design feature or practice, but rather those interesting features submitted as part of the competition. Also, many of the features have corresponding cost and difficulty assignments as well as how-to tips. These are intended to provide general direction; further exploration and execution will be necessary.

### GOALS FOR THE TOOLKIT

Every American should have access to affordable, livable, and healthy housing. Make Universal Design a reality for more Americans. Seed ideas that are scalable and help organizations, real estate practitioners, and low- and moderate-income households recognize that universal design can be a reality for them.

### REPLICABILITY

While we don't expect everyone to renovate their entire home using universal design, we know that many of the features included can be adapted to many different renovation projects. Individual households may be interested in the graded yard, the step free route to the deck, an outdoor deck that is the same level as the first

floor, the entrance weather protection, door hardware, interior doors, short, wide hallways, convenient laundry, curbless shower, spacious bathroom, kitchen conveniences, and more. Pick the part of the house that you want to work on and look at what we've done for inspiration.

## Universal Design Principles

### Principle 1: Equitable Use

The design is useful and marketable to people with diverse abilities.

### Principle 2: Flexibility in Use

The design accommodates a wide range of individual preferences and abilities.

### Principle 3: Simple and Intuitive

Use of the design is easy to understand, regardless of the user's experience, knowledge, language skills, or current concentration level.

### Principle 4: Perceptible Information

The design communicates necessary information effectively to the user, regardless of ambient conditions or the user's sensory abilities.

### Principle 5: Tolerance for Error

The design minimizes hazards and the adverse consequences of accidental or unintended actions.

### Principle 6: Low Physical Effort

The design can be used efficiently and comfortably and with a minimum of fatigue

### Principle 7: Size and Space for Approach and Use

Appropriate size and space is provided for approach, reach, manipulation, and use regardless of user's body size, posture, or mobility.