

# Santa Rosa Junior College

## *Interior Design Program*

Spring Semester  
2021 Course

Course Title: **Kitchen and Bath Design**  
Course Number: **INDE 122**  
Number of Credits: **3 credits**  
Instructor Name: **Shari Canepa ASID, CID, LEED, CGBP, MA,ed**  
Office Hours: **By appointment**  
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### **CLASS INFORMATION:**

Hours: **Mondays 2:00pm-6:00pm (4 hours per week)**  
Location: **Classroom TBD; class materials via CANVAS**  
Zoom Link: <https://zoom.us/meeting> .  
Canvas Link: <https://canvas.santarosa.edu/>

### **Required Texts:**

- \* **NKBA Kitchen & Bathroom Planning Guidelines with Access Standards; 2<sup>nd</sup> Edition**  
by NKBA, © 2016
- \* **The NKBA Knowledge Base** which is an online resource only available to NKBA members AND NKBA Student Members for around \$100.00 per year. NKBA student membership is free. Access to the NKBA Knowledge Base is around \$100.00 for 1 year of access.  
<https://nkba.org/students/>  
<https://nkba.org/info/students/join/student-membership-application/>  
<https://nkba.org/knowledge-base/>

### **Required Supplies, Equipment and Programs:**

- \* **Computer (desktop or laptop) with reliable internet connection and a presentation software program such as PowerPoint, Keynote or Google Slides**
- \* **Cell phone or camera**
- AND EITHER:**
- \* **Access to a design software program with which you are familiar enough to create CAD drawings for kitchens and baths (including floor plans, elevations, etc.)**

OR

- \* Drafting equipment including drafting board, vellum and drafting tools

#### **Additional Suggested Viewing and Reading:**

- \* California Buildings codes - <https://www.dgs.ca.gov/BSC/Codes>
- \* Sonoma County Building Codes - <https://sonomacounty.ca.gov/PRMD/Services/Inspection-Scheduling/Building-Inspection-Codes/>
- \* City of Santa Rosa Building Codes - <https://srcity.org/Search?searchPhrase=building%20codes>
- \* You-Tubes as per class assignments (SOME ARE MANDATORY)
- \* Websites: [www.apartmenttherapy.com](http://www.apartmenttherapy.com), [www.houzz.com](http://www.houzz.com), [www remodelista.com](http://www remodelista.com), [www.gardenista.com](http://www.gardenista.com), [www.pinterest.com](http://www.pinterest.com), (start journal), [www.interiordesign.net](http://www.interiordesign.net) (magazine)

#### **Catalog Description of Course:**

Principles and elements of interior design for creating efficient and aesthetically pleasing kitchens and baths. Topics include space planning, equipment, appropriate materials, and building codes. Application of National Kitchen and Bath Standards for interior design. Students must provide their own drafting supplies.

#### **Prerequisites/Corequisites:**

- Course Completion of INDE 20.

#### **Recommended Preparation:**

- Course Completion of INDE 50.

#### **Student Learning Outcomes:**

Upon completion of the course, students will be able to:

- Design a kitchen utilizing professional guidelines and standards from the National Kitchen and Bath Association (NKBA).
- Design a bathroom utilizing professional guidelines and standards from the National Kitchen and Bath Association.
- Specify all appliances, furnishings, fixtures, cabinetry, materials, and equipment for specific design layouts.

## Objectives:

- During this course, the students will:
- Discuss the history of kitchens and baths in the United States.
  - Demonstrate the use of the elements and principles of interior design in kitchen and bath planning.
  - Analyze the functions of kitchens and baths and create designs accordingly.
  - Determine the availability of kitchen appliances and bath fixtures in the marketplace and make appropriate selections based on cost, size, features, advantages, disadvantages, and incorporate those selections into kitchen and bath designs.
  - Describe the three centers of the work triangle and plan an efficient kitchen accordingly.
  - Compare and contrast the six common kitchen floor plans and describe the advantages and disadvantages of each.
  - Select materials and lighting for use in kitchens and baths based on availability, cost, features, and advantages and disadvantages, and incorporate into kitchen and bath designs.
  - Determine ventilation requirements for kitchen and bath designs.
  - Design a kitchen and bathroom to meet a client's requirements and lifestyle.

## Topics and Scope:

- I. Overview of the history of kitchens and baths in the United States
- II. Elements and principles of design in kitchens and baths
- III. Basic use of kitchens for food preparation
- IV. Appliances used in kitchens
- V. Baths functions and features
- VI. Fixtures & Fittings used in baths
- VII. Kitchen and bath storage
- VIII. Materials and lighting for kitchen and baths
- IX. Ventilation needs in kitchen and bath
- X. Planning efficient kitchen layouts
- XI. Bathroom floor plans
- XII. Professional considerations

## Grading:

**Attendance: 15%**  
**Canvas Participation: 10%**  
**Class Presentations: 10%**  
**Homework: 30%**  
**Mid-Term Exam/Kitchen Project: 15%**  
**Final Exam/Project: 20%**

**Deliverables:**

- Reading
- Weekly Assignments/Homework
- Resource Analysis
- Mid Term Exam/Kitchen Project
- Final Exam/Project: 2 choices (either Badge or Bath Project)

**Required Weekly Assignments/Homework Include:**

- All homework assignments will be explained in detail the week before they are due
- Reading an average of 20 pages per week
- Checking CANVAS after class each week for additional information
- Reading and/or watching links and you-tubes (found in CANVAS) each week
- OPTIONAL: Journal 3 things, every week, that you learned from reading and/or watching the links and you-tubes (found in CANVAS) each week

**Additional Information:**

- Students are to adhere to the Student Conduct Standards (see catalogue).
- All cellphones off during class time.
- HOMEWORK: will only be accepted for full credit on the date it is due. However, you may submit homework late via CANVAS for partial credit.

# Class Schedule: Spring 2021

Syllabus subject to  
change

## **CLASS 1:** Monday, January 25<sup>th</sup>

### **LECTURE: KITCHENS AND BATHS ARE ALL ABOUT GIVE AND TAKE**

- Student introductions – why you are taking this course and what type of experience you have in kitchens and baths.
- Introduction to the course including:
  - NKBA's student membership
  - NKBA's Knowledge Base
  - Chief Architect's student license
  - General explanation of Final Exam options: NKBA Badge vs. Bathroom Project
- Kitchen and Bath History & Trends
- Fundamentals: Elements & Principles of Design

### **HOMEWORK:**

- Assignment: Historical Kitchens & Baths and the Elements & Principles of Design  
See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, January 31<sup>st</sup>.
- Read the following chapters of the NKBA Knowledge Base:
  - K&B Design Principles: Chapter 1: A Brief History of Kitchen and Bathroom Design
  - K&B Design Principles: Chapter 3: The Elements of Design
  - K&B Design Principles: Chapter 4: The Principles of Design

## **CLASS 2:** Monday, February 1<sup>st</sup>

### **LECTURE: COMMUNICATION IS KEY, BUT THE DEVIL IS IN THE DETAILS**

- Kitchen & Bath Drawing & Drafting Standards
- Introduction to Chief Architect

### **IN CLASS:**

- Demonstration on how to use Chief Architect

### **HOMEWORK:**

- Assignment: Watch Chief Architect training videos.  
See CANVAS for details.
- Assignment: Kitchen and Bath codes.  
See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 7<sup>th</sup>.

- Read the following chapters of the NKBA Knowledge Base:
  - K&B Design Presentation: Chapter 1: NKBA Drawing and Documents
  - K&B Design Presentation: Chapter 5: The NKBA Floor Plan: Drafting and Dimensioning the Plan
  - K&B Design Presentation: Chapter 6: NKBA Drawings in a Set of Plans
  - K&B Design Presentation: Chapter 8: NKBA's Graphics and Presentation Standards

**CLASS 3: Monday, February 8<sup>th</sup>**

**LECTURE: YIN AND YANG: CONSTRUCTION FROM SCRATCH VERSUS REMODEL**

- Construction

**HOMEWORK:**

- Assignment: Kitchen design project using Chief Architect. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 21<sup>st</sup>.
- Attend one KBIS 2021 VIRTUAL EVENT Feb 9<sup>th</sup>-11<sup>th</sup> and explain (in outline form) what you learned.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 21<sup>st</sup>.
- Read the following chapters of the NKBA Knowledge Base:
  - Bath Planning: Guidelines, Codes, Standards: Chapter 2: Infrastructure Considerations
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 2: Infrastructure Considerations
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 6: Kitchen Planning sections 1-7 (stop before "8 Storage")

**NO CLASS: Monday, February 15<sup>th</sup> – Washington's Day Holiday**

**CANVAS: See Canvas**

**CLASS 4: Monday, February 22<sup>nd</sup>**

**LECTURE: BIG VERSUS LITTLE: UNDER STAIRWAYS VERSUS 20 PERSON KITCHENS**

- *Explanation of and expectations for weekly research assignments: ASSIGN GROUPS FOR WEEKS 8-14 HOMEWORK*

- Kitchen Planning:
  - 7 Kitchen Layouts
  - Kitchen sizes
  - Kitchen centers
  - Work Triangle

**HOMEWORK:**

- Assignment: Big kitchens versus little kitchens  
See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 28<sup>th</sup>.
- Read NKBA Kitchen & Bathroom Planning Guidelines with Access Standards: Kitchen Guidelines 1-31 (pages 1-35)
- Read the following chapters of the NKBA Knowledge Base:
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 4: Human Factors and Universal Design Foundation
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 5: Assessing Needs

**CLASS 5: Monday, March 1<sup>st</sup>**

**LECTURE: *DEBATE: ARE KITCHENS DISAPPEARING OR ARE THEY THE HEART OF THE HOME?***

- Kitchen Planning Introduction:
  - NKBA Kitchen Guidelines
  - Human Factors: Proxemics & Anthropometrics for Kitchens
  - Programming and Assessing Needs for Kitchens

**HOMEWORK:**

- Assignment: Are kitchens disappearing or are they the heart of the home?  
See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 7<sup>th</sup>.
- Read the following chapters of the NKBA Knowledge Base:
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 6: Kitchen Planning sections 8-13
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 8: Accessibility in Practice

**CLASS 6: Monday, March 8<sup>th</sup>**

**LECTURE: *TOO FAR OR TOO CLOSE? HIDING OR EXPOSED?***

- Kitchen Planning continued:

- Motion Economy
- Kitchen Zones and Storage
- Storage Calculation

**HOMEWORK:**

- Assignment: Mid-Term Project: Kitchen Redesign  
See CANVAS for details.  
*Begin working on your mid-term project and be prepared to discuss any questions you have regarding your project with Shari during the "LAB" portion of class 7 on Monday, March 15<sup>th</sup>.*  
Completed Mid-Term Project must be submitted via Canvas by 11:59 pm on Sunday, March 28<sup>th</sup>.
- Read NKBA Kitchen & Bathroom Planning Guidelines with Access Standards: Bathroom Guidelines 1-27 (pages 37-76)
- Read the following chapters of the NKBA Knowledge Base:
  - Bath Planning: Guidelines, Codes, Standards: Chapter 4: Human Factors and Universal Design Foundation
  - Bath Planning: Guidelines, Codes, Standards: Chapter 5: Assessing Needs

**CLASS 7: Monday, March 15<sup>th</sup>**

**LECTURE: 1<sup>st</sup> Half of Class: EVERYBODY USES BATHROOMS**

- Bath Planning Introduction:
  - NKBA Bath Guidelines
  - Human Factors: Proxemics & Anthropometrics for Bathrooms
  - Programming and Assessing Needs for Bathrooms

**LAB: 2<sup>nd</sup> Half of Class**

- *Discuss any questions you have regarding your Mid-Term project with Shari.*

**HOMEWORK:**

- Assignment: Continue working on the Mid-Term Project: Kitchen Redesign  
Must be submitted via Canvas by 11:59 pm on Sunday, March 28<sup>th</sup>.
- Read the following chapters of the NKBA Knowledge Base:
  - Bath Planning: Guidelines, Codes, Standards: Chapter 6: Bathroom Planning
  - Bath Planning: Guidelines, Codes, Standards: Chapter 8: Accessibility in Practice

**NO CLASS: Monday, March 22<sup>nd</sup> – SPRING BREAK (March 22<sup>nd</sup> – March 28<sup>th</sup>)**

**CANVAS: See Canvas**



**CLASS 8: Monday, March 29<sup>th</sup>**

**MID-TERM PROJECT DUE PRIOR TO THIS CLASS**

**LECTURE: BASIC BATHROOMS VERSUS CREATIVE BATHROOMS**

- Rereview expectations for weekly research assignments and assigned groups for weeks 8-14 homework
- Bathroom Planning continued:
  - Types and Locations for Bathrooms
  - General Bathroom Design
  - Centers (Grooming, Bathing/Showering, Toileting)

**HOMEWORK:**

- **GROUP #1 ONLY:** Complete Weekly Research Assignment: Cabinet Companies  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 4<sup>th</sup>.
- **All Students:** Read the following chapters of the NKBA Knowledge Base:
  - Kitchen & Bath Products and Materials: Chapter 1: Cabinetry
  - Kitchen & Bath Products and Materials: Appendix A: Generic Cabinet Nomenclature

**CLASS 9: Monday, April 5<sup>th</sup>**

**LECTURE: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #1**

- Final Exam/Project will be explained
- Cabinetry:
  - Cabinet Types
  - Cabinet Construction
  - Nomenclature
  - Cabinet Hardware

**HOMEWORK:**

- **GROUP #2 ONLY:** Complete Weekly Research Assignment: Cabinet Hardware and Storage & Organization  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 11<sup>th</sup>.
- **All Students:** Read the following chapters of the NKBA Knowledge Base:
  - Kitchen & Bath Products and Materials: Chapter 2: Appliance Types and Planning Considerations
- **All Students:** Begin working on Final Exam/Project.  
Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

**CLASS 10: Monday, April 12<sup>th</sup>**

**LECTURE: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #2**

- Appliances:
  - Cooling Appliances
  - Cooking Appliances
  - Cleaning Center & Appliances

**HOMEWORK:**

- **GROUP #3 ONLY: Complete Weekly Research Assignment: Appliances**  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 18<sup>th</sup>.
- **All Students: Read the following chapters of the NKBA Knowledge Base:**
  - Kitchen & Bath Products and Materials: Chapter 3: Fixture Materials
  - Kitchen & Bath Products and Materials: Chapter 4: Fixture Design and Planning Considerations
- **All Students: Continue working on Final Exam/Project.**  
Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

**CLASS 11: Monday, April 19<sup>th</sup>**

**LECTURE: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #3**

- Fixtures:
  - Fixture Materials
  - Kitchen Fixtures (sinks)
  - Bath Fixtures (lavatory, toilet, bidet, urinal, bathtub, shower stall, bathtub/shower combination)

**HOMEWORK:**

- **GROUP #4 ONLY: Complete Weekly Research Assignment: Fixtures and Fittings**  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 25<sup>th</sup>.
- **All Students: Read the following chapters of the NKBA Knowledge Base:**
  - Kitchen & Bath Products and Materials: Chapter 5: Fitting Materials, Engineering, and Configuration
  - Kitchen & Bath Products and Materials: Chapter 6: Bathtub and Shower Fitting Design and Engineering
- **All Students: Continue working on Final Exam/Project.**  
Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

## **CLASS 12: Monday, April 26<sup>th</sup>**

### **LECTURE: 1<sup>st</sup> Half of Class: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #4**

- **Fittings:**
  - **Fitting Materials**
  - **Kitchen Fittings (faucets)**
  - **Bath Fittings (faucets, bathtub fittings, shower fittings, bathtub/shower combination fittings, steam showers & saunas)**

### **LAB: 2<sup>nd</sup> Half of Class**

- *Guest speaker coming to answer questions and discuss fittings and fixtures.*

### **HOMEWORK:**

- **GROUP #5 ONLY: Complete Weekly Research Assignment: Countertops**  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, May 2<sup>nd</sup>.
- **All Students: Read the following chapters of the NKBA Knowledge Base:**
  - **Kitchen & Bath Products and Materials: Chapter 7: Surfacing Materials**
- **All Students: Continue working on Final Exam/Project.**  
Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

## **CLASS 13: Monday, May 3<sup>rd</sup>**

### **LECTURE: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #5, 6, 7 & 8**

- **Surfacing Materials:**
  - **Countertops**
  - **Tile**
  - **Wall Coverings**
  - **Floors**

### **HOMEWORK:**

- **GROUP #6 ONLY: Complete Weekly Research Assignment: Walls, Ceilings and Flooring**  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, May 9<sup>th</sup>.
- **All Students: Read the following chapters of the NKBA Knowledge Base:**
  - **Kitchen Planning: Guidelines, Codes, Standards: Chapter 7: Mechanical Planning**
  - **Bath Planning: Guidelines, Codes, Standards: Chapter 7: Mechanical Planning**

- Residential Construction and Systems: Chapter 20: Lighting
- All Students: Continue working on Final Exam/Project.  
Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

#### **CLASS 14: Monday, May 10<sup>th</sup>**

##### **LECTURE: RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #9 & 10**

- Lighting & Mechanical Planning in Kitchen (including ventilation)
- Lighting & Mechanical Planning in Baths (including ventilation)

##### **HOMEWORK:**

- GROUP #7 ONLY: Complete Weekly Research Assignment: Lighting  
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, May 16<sup>th</sup>.
- All Students: Read the following chapters of the NKBA Knowledge Base:
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 3: Environmental and Sustainability Considerations
  - Bath Planning: Guidelines, Codes, Standards: Chapter 3: Environmental and Sustainability Considerations
- All Students: Continue working on Final Exam/Project.  
Must be submitted via Canvas by 11:59 pm Sunday, May 23<sup>rd</sup>.

#### **CLASS 15: Monday, May 17<sup>th</sup> FINAL EXAM/PROJECT - DUE AFTER THIS CLASS (\*see note)**

##### **LECTURE: IF WE DON'T HAVE A PLANET, WE DON'T HAVE KITCHENS OR BATHS**

- Environmental & Sustainability Considerations for Kitchens
- Environmental & Sustainability Considerations for Baths
- Overview of NKBA Professional Development and Resources:
  - Certification
  - CEU Program (including free NKBA webinars)
  - Specialty Badge Program

##### **HOMEWORK:**

- All Students: Assignment: Complete Final Exam/Project.  
\*Must be submitted via Canvas by 11:59 pm on Sunday, May 23<sup>rd</sup>.

- All Students: Read the following chapters of the NKBA Knowledge Base:
  - Kitchen Planning: Guidelines, Codes, Standards: Chapter 10: Putting It All Together
  - Bath Planning: Guidelines, Codes, Standards: Chapter 10: Putting It All Together

**\*FINAL EXAM/PROJECT: Due electronically no later than 11:59pm on Sunday, May 23rd.**