

# Santa Rosa Junior College

## *Interior Design Program*

Spring Semester  
2023 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 before and after class**  
Phone Number: **310-386-1318**  
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### **CLASS INFORMATION:**

Hours: **Mondays 10:00am-2:00pm (4 hours per week)**  
Location: **Classroom 111; class materials via CANVAS**  
Canvas Link: **<https://canvas.santarosa.edu/>**

### **Required Texts:**

- \* **NKBA Kitchen & Bathroom Planning Guidelines with Access Standards; 2<sup>nd</sup> Edition** by NKBA, © 2016 (We are using the 1<sup>st</sup> addition which is currently available on Amazon for \$16.95 spiral bound or Kindle for \$4.99).
- \* **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.

**IMPORTANT: PLEASE CLICK ON THESE 3 LINKS:**

**<https://nkba.org/students/>**  
**<https://nkba.org/students/join/>**  
**<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 (most available online for free):**

- \* 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: <https://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.

#### **Recommended Preparation:**

- Course Completion of INDE 20.
- 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/Project: 15%**  
**Final Exam/Project: 20%**

**Deliverables:**

- Reading
- Weekly Assignments/Homework
- Class Presentations
- Mid Term Exam/Project - Bath
- Final Exam/Project - Kitchen

**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 (beginning of semester heavier than the end)
- Checking CANVAS after class each week for additional information
- Reading and/or watching links and you-tubes (found in CANVAS) each week
- We will be scheduling on-site field trips:
  - Bath and Kitchen Fixtures/Fittings
  - Stone & Tile
  - TBD
  - Cabinetry
  - Appliances

**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 2023

Syllabus subject to  
change

## **Lesson 1:** Monday, January 23<sup>rd</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 Mid-Term & Final Exam: Bathroom Project and Kitchen 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 29<sup>th</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
  - 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

## **Lesson 2: Monday, January 30<sup>th</sup>**

### **LECTURE (Part 1): COMMUNICATION IS KEY, BUT THE DEVIL IS IN THE DETAILS**

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

### **LECTURE (Part 2): YIN AND YANG: CONSTRUCTION FROM SCRATCH VERSUS REMODEL**

- Construction & Building Codes

#### **IN CLASS:**

- Demonstration on how to use Chief Architect

#### **HOMEWORK:**

- Assignment (optional): Watch Chief Architect training videos if you are planning on using Chief Architect. See CANVAS for details.
- Assignment: Sample Project. See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, February 5<sup>th</sup>.
- Assignment: Kitchen and Bath codes. See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, February 5<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 (This reading can be spread out over the 1<sup>st</sup> part of semester. You will need to understand the key points in order to complete your mid-term project):
  - Bath Planning: Guidelines, Codes, Standards: Chapter 2: Infrastructure Considerations
  - Bath Planning: Guidelines, Codes, Standards: Chapter 4: Human Factors and Universal Design Foundation
  - Bath Planning: Guidelines, Codes, Standards: Chapter 5: Assessing Needs
  - Kitchen & Bath Products and Materials: Chapter 3: Fixture Materials
  - Kitchen & Bath Products and Materials: Chapter 4: Fixture Design and Planning Considerations
  - Bath Planning: Guidelines, Codes, Standards: Chapter 6: Bathroom Planning
  - Bath Planning: Guidelines, Codes, Standards: Chapter 8: Accessibility in Practice
  - 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

### **LESSON 3: Monday, February 6<sup>th</sup>**

#### **LECTURE (Part 1): EVERYBODY USES BATHROOMS**

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

#### **LECTURE (Part 2): DEBATE: BASIC BATHROOMS VERSUS CREATIVE BATHROOMS**

- Bathroom Planning continued:
  - Types and Locations for Bathrooms
  - General Bathroom Design
- Centers (Grooming, Bathing/Showering, Toileting)

#### **IN CLASS:**

- **Mid-Term Project will be explained**

#### **HOMEWORK:**

- Assignment: Mid-Term Project: Bath design  
Complete the personal program portion for the bath design mid-term project. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 12<sup>th</sup>.
- Be prepared to discuss any questions you have regarding your project with Shari during class 5 on Monday, February 27<sup>th</sup>.
- Completed Mid-Term Project must be submitted via Canvas by 11:59 pm on Sunday, March 12<sup>th</sup>
- Read the following chapters of the NKBA Knowledge Base:
  - Kitchen & Bath Products and Materials: Chapter 7: Surfacing Materials

### **LESSON 4: Monday, February 13<sup>th</sup>**

#### **FIELD TRIP #1: KITCHEN & BATH FIXTURES & FITTINGS**

- More information to come
- See CANVAS for details.

#### **HOMEWORK:**

- Assignment: Complete Field Trip #1 Project. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, February 26<sup>th</sup>.
- Assignment: Continue working on the Mid-Term Project: Bath design. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 12<sup>th</sup>.
- 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.

**NO CLASS:** Monday, February 20<sup>th</sup> – Washington's Day Holiday

**CANVAS:** See Canvas

**LESSON 5:** Monday, February 27<sup>th</sup>

**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

**IN CLASS:**

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

**HOMEWORK:**

- Assignment: Continue working on the Mid-Term Project: Bath design. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 12<sup>th</sup>.

**LESSON 6:** Monday, March 6<sup>th</sup>

**FIELD TRIP #2: STONE & TILE**

- More information to come
- See CANVAS for details.

**HOMEWORK:**

- Assignment: Complete Field Trip #2 Project. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 12<sup>th</sup>.
- Assignment: Continue working on the Mid-Term Project: Bath design. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 12<sup>th</sup>.
- Be prepared to present your Mid-Term Project: Bath design, in class, on Monday, March 13<sup>th</sup>.



**LESSON 7: Monday, March 13<sup>th</sup>      MID-TERM PROJECT DUE PRIOR TO THIS CLASS**

**IN CLASS:**

- **Mid-term Project Presentations**

**HOMEWORK:**

- TBD

**NO CLASS: Monday, March 20<sup>th</sup> – SPRING BREAK (March 20<sup>th</sup> – March 26<sup>th</sup>)**

**CANVAS: See Canvas**

**LESSON 8: Monday, March 27<sup>th</sup>**

**FIELD TRIP #3: PERSONAL FIELD TRIP & PROJECT**

- More information to come
- See CANVAS for details.

**IN CLASS VIA ZOOM:**

- For those using Chief Architect, you are invited to attend a Q&A session. See CANVAS for details.

**HOMEWORK:**

- Assignment: Complete Field Trip #3 Project. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, April 2<sup>nd</sup>.
- Be prepared to present your Field Trip #3 Project, in class, on Monday, April 3<sup>rd</sup>.
- Read the following chapters of the NKBA Knowledge Base:
  - 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").
  - Kitchen & Bath Products and Materials: Chapter 1: Cabinetry
  - Kitchen & Bath Products and Materials: Appendix A: Generic Cabinet Nomenclature

**LESSON 9: Monday, April 3<sup>rd</sup>**

**IN CLASS:**

- **Field Trip #3 Presentations**
- **Final Exam/Project will be explained**

**HOMEWORK:**

- 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
  - Kitchen & Bath Products and Materials: Chapter 2: Appliance Types and Planning Considerations
- Assignment: Begin working on Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>, then presented, in class, on Monday, May 15<sup>th</sup>. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

## **LESSON 10: Monday, April 10<sup>th</sup>**

### **FIELD TRIP #4: CABINETRY**

- More information to come.
- See CANVAS for details.

### **HOMEWORK:**

- Assignment: Complete Filed Trip #4 Project. See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 16<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
- Assignment: Continue working on Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>, then presented, in class, on Monday, May 15<sup>th</sup>. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

## **LESSON 11: Monday, April 17<sup>th</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, April 23<sup>rd</sup>.
- Assignment: Continue working on Final Exam/Project.  
Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>, then presented, in class, on Monday, May 15<sup>th</sup>. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

### **LESSON 12: Monday, April 24<sup>th</sup>**

#### **FIELD TRIP #5: APPLIANCES**

- More information to come.
- See CANVAS for details.

#### **HOMEWORK:**

- Assignment: Complete Field Trip #5 Project. See CANVAS for details.  
Must be submitted via Canvas by 11:59 pm on Sunday, March 31<sup>st</sup>.
- Assignment: Continue working on Final Exam/Project.  
Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>, then presented, in class, on Monday, May 15<sup>th</sup>. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

### **LESSON 13: Monday, May 1<sup>st</sup>**

#### **LECTURE (Part 1): BIG VERSUS LITTLE: UNDER STAIRWAYS VERSUS 20 PERSON KITCHENS**

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

#### **LECTURE (Part 2): TOO FAR OR TOO CLOSE? HIDING OR EXPOSED?**

- Kitchen Planning continued:
  - Motion Economy
  - Kitchen Zones and Storage
  - Storage Calculation

#### **HOMEWORK:**

- Assignment: Big kitchens versus little kitchens

See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, May 7<sup>th</sup>.

- 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
- Assignment: Continue working on Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>, then presented, in class, on Monday, May 15<sup>th</sup>. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

#### **LESSON 14: Monday, May 8<sup>th</sup>**

##### **LECTURE: *LIGHTING & MECHANICAL***

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

##### **IN CLASS:**

- Overview of NKBA Professional Development and Resources:
  - Certification
  - CEU Program (including free NKBA webinars)
  - Specialty Badge Program

##### **HOMEWORK:**

- \*Assignment: Complete your Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 14<sup>th</sup>
- Be ready to present your Final Exam/Project, in class, on Monday, May 15<sup>th</sup>.
- Revisions may be made to your Final Exam/Project following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</sup>.

#### **LESSON 15: Monday, May 15<sup>th</sup> FINAL EXAM/PROJECT DUE PRIOR TO THIS CLASS** (\*see note)

##### **IN CLASS:**

- **Final Exam/Project Presentations**

##### **HOMEWORK:**

- Assignment: Revisions may be made to your Final Exam/Project

following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Monday, May 22<sup>nd</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: Revisions that you make based on the Shari's feedback during the final exam/project presentations are due electronically no later than 11:59pm on Monday, May 22<sup>nd</sup>.**