

Santa Rosa Junior College

Interior Design Program

Spring Semester
2022 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**
Phone Number: **310-386-1318**
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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; 2nd 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/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:

- * 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, www.houzz.com, www remodelista.com, www.gardenista.com, www.pinterest.com, (start journal), 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/Project: 15%**
- Final Exam/Project: 20%**

Deliverables:

- Reading
- Weekly Assignments/Homework
- Resource Analysis
- Mid Term Exam/Project
- Final Exam/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
- *Although this is an on-line class, we will be scheduling on-site field trips.*
 - *Cabinets*
 - *Bath and Kitchen Fixtures/fittings*
 - *Tile*

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 2022

Syllabus subject to
change

Lesson 1: Monday, January 24th

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 30th.
- 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

Lesson 2: Monday, January 31st

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: Sample Project.
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, February 6th.
- 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

LESSON 3: Monday, February 7th

LECTURE: YIN AND YANG: CONSTRUCTION FROM SCRATCH VERSUS REMODEL

- Construction & Building Codes

IN CLASS:

- [Sign-up sheet for Weekly Resource Analysis Presentations: Explanation of and expectations for weekly research assignments will be given.](#)
- Chief Architect demonstration continued

HOMEWORK:

- Assignment: Kitchen and Bath codes.
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, February 13th.
- 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 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

LESSON 4: Monday, February 14th

LECTURE: EVERYBODY USES BATHROOMS

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

IN CLASS:

- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #1**
Presentation: Bath Fixtures
 - Fixture Materials
 - Bath Fixtures (lavatory, toilet, bidet, urinal, bathtub, shower stall, bathtub/shower combination)

HOMEWORK:

- 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
 - 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

NO CLASS: Monday, February 21st – Washington’s Day Holiday

CANVAS: See Canvas

LESSON 5: Monday, February 28th

LECTURE: 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**
- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #2**
Presentation: Bath Fittings
 - Fitting Materials
 - Bath Fittings (faucets, bathtub fittings, shower fittings, bathtub/shower combination fittings, steam showers & saunas)

HOMEWORK:

- Read the following chapters of the NKBA Knowledge Base:
 - Kitchen & Bath Products and Materials: Chapter 7: Surfacing Materials
- Assignment: Mid-Term Project: Bath design
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 6 on Monday, March 7th.*
- Completed Mid-Term Project must be submitted via Canvas by 11:59 pm on Sunday, March 27th

LESSON 6: Monday, March 7th

FIELD TRIP #1:

- More information to come
- See CANVAS for details.
- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #3**
Presentation: Tile

LAB: 2nd Half of 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 27th.

LESSON 7: Monday, March 14th

FIELD TRIP #2:

- More information to come
- See CANVAS for details.

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 27th.
- Be prepared to present your Mid-Term Project: Bath design, in class, on Monday, March 28th.

NO CLASS: Monday, March 21st – SPRING BREAK (March 21st – March 27th)

CANVAS: See Canvas

**LESSON 8: Monday, March 28th
CLASS**

MID-TERM PROJECT DUE PRIOR TO THIS

IN CLASS:

- **Mid-term Project Presentations**

HOMEWORK:

- 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 4th

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

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

IN CLASS:

- **Final Exam/Project will be explained**
- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #4**
Presentation: Cabinetry
 - Cabinet Types
 - Cabinet Construction
 - Nomenclature
 - Cabinet Hardware

HOMEWORK:

- Assignment: Big kitchens versus little kitchens
See CANVAS for details. Must be submitted via Canvas by 11:59 pm on Sunday, April 10th.
- 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 15th, then presented, in class, on Monday, May 16th. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd

LESSON 10: Monday, April 11th

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

IN CLASS:

- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #5**
Presentation: Appliances
 - Cooling Appliances
 - Cooking Appliances
 - Cleaning Center & Appliances

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 17th.
- **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 15th, then presented, in class, on Monday, May 16th. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd.

LESSON 11: Monday, April 18th

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

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

IN CLASS:

- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #6**
Presentation: Kitchen Fixtures & Fittings
 - Fixture & Fitting Materials
 - Kitchen Fixtures (sinks)
 - Kitchen Fittings (faucets)

HOMEWORK:

- **Assignment: Continue working on Final Exam/Project.**
Must be submitted via Canvas by 11:59 pm on Sunday, May 15th, then presented, in class, on Monday, May 16th. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd.

LESSON 12: Monday, April 25th

FIELD TRIP #3:

- More information to come.
- See CANVAS for details.
- **RESOURCES ARE OUR FRIENDS: RESOURCE ANALYSIS #7**
Presentation: Countertops

HOMEWORK:

- 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 15th, then presented, in class, on Monday, May 16th. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd.

LESSON 13: Monday, May 2nd

LECTURE: LIGHTING & MECHANICAL

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

HOMEWORK:

- 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.
- Assignment: Continue working on Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 15th, then presented, in class, on Monday, May 16th. Revisions may be made following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd

LESSON 14: Monday, May 9th

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:

- Assignment: Complete your Final Exam/Project. Must be submitted via Canvas by 11:59 pm on Sunday, May 15th
- Be ready to present your Final Exam/Project, in class, on Monday, May 16th.
- Revisions may be made to your Final Exam/Project following your presentation. Your final version must be submitted via CANVAS by 11:59pm on Sunday, May 22nd.

LESSON 15: Monday, May 16th 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 Sunday, May 22nd.
- 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 Sunday, May 22nd.**