Acknowledgments

The components of this instructional framework were developed by the following curriculum development panelists:

Karen Curtis, PhD, Woodgrove High School, Loudoun County Public Schools
Barbara Goodwin, CID, ASID, Interior Designer, Universal Design Associates LLC, Richmond
Meredith Hayes, Interior Designer, Reflections Interior Design, Mechanicsville
Christiana Lafazani, Chair, Department of Interior Design, Virginia Commonwealth University, Richmond
Dana Legette-Traylor, Associate Professor, Family and Consumer Sciences, Virginia State University
Michele LeTourneur, Interior Designer, Asym Interiors LLC, Fairfax
Toshieba Ragland, Lake Braddock Secondary School, Fairfax County Public Schools
Nicole Rutledge, Interior Designer, Nicole Rutledge Design, Richmond
Allison Revis, Liberty High School, Bedford County Public Schools
Cameron Stiles, CID, FASID, LEEDAP, NCIDQ, Interior Designer, KSA Interiors, Glen Allen
Julie Ann Temple, VASID, IDEC, NCIDQ, Associate Professor, Department of Design, Radford University, Radford
Alexandra Whiteside, Instructor, Art Institute of Virginia Beach, Virginia Beach

Correlations to the Virginia Standards of Learning were reviewed and updated by:

Leslie R. Bowers, English Teacher (ret.), Newport News Public Schools
Vickie L. Inge, Mathematics Committee Member, Virginia Mathematics and Science Coalition
Anne F. Markwith, New Teacher Mentor (Science), Gloucester County Public Schools
Michael L. Nagy, Social Studies Department Chair, Rustburg High School, Campbell County Schools
Kathleen Buchanan reviewed and updated the FCCLA correlations.

The framework was edited and produced by the CTE Resource Center:

Heather A. Widener, Writer/Editor
Kevin P. Reilly, Administrative Coordinator

Virginia Department of Education Staff

Helen G. Fuqua, Specialist, Family and Consumer Sciences and Related Clusters
Dr. Tricia S. Jacobs, CTE Coordinator of Curriculum and Instruction
Dr. David S. Eshelman, Director, Workforce Development and Initiatives
George R. Willcox, Director, Operations and Accountability

Office of Career, Technical, and Adult Education
Virginia Department of Education

Copyright © 2019

Course Description

Suggested Grade Level: 11 or 12
Prerequisites: 8295

Interior Design II students examine professional practices and deepen their knowledge of interior design. Students apply the elements and principles of design in the development of design projects. This course emphasizes critical thinking, practical problem solving, and entrepreneurship opportunities within the profession of interior design.

Task Essentials Table

- Tasks/competencies designated by plus icons (⊕) in the left-hand column(s) are essential
- Tasks/competencies designated by empty-circle icons (〇) are optional
- Tasks/competencies designated by minus icons (●) are omitted
- Tasks marked with an asterisk (*) are sensitive.

<table>
<thead>
<tr>
<th>8296</th>
<th>Tasks/Competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>⊕</td>
<td>Analyze the meaning of work and the meaning of family.</td>
</tr>
<tr>
<td>⊕</td>
<td>Compare how families affect work life and how work life affects families.</td>
</tr>
<tr>
<td>⊕</td>
<td>Identify management strategies for balancing work and family roles.</td>
</tr>
<tr>
<td>⊕</td>
<td>Determine the components of a project.</td>
</tr>
<tr>
<td></td>
<td>Explain aspects of project coordination and contract administration.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Identify the components of a design contract.</td>
</tr>
<tr>
<td></td>
<td>Identify credentialing options for an interior designer.</td>
</tr>
<tr>
<td></td>
<td>Examine business practices and procedures used in the interior design industry.</td>
</tr>
<tr>
<td></td>
<td>Evaluate marketing procedures for design services and products.</td>
</tr>
<tr>
<td></td>
<td>Maintain a career portfolio.</td>
</tr>
<tr>
<td></td>
<td>Analyze the components of professional working documents.</td>
</tr>
<tr>
<td></td>
<td>Analyze structural components of a building.</td>
</tr>
<tr>
<td></td>
<td>Identify sustainable practices in the interior design industry.</td>
</tr>
<tr>
<td></td>
<td>Identify the basic components of electrical and mechanical systems.</td>
</tr>
<tr>
<td></td>
<td>Identify types and characteristics of lighting used in interior spaces.</td>
</tr>
<tr>
<td></td>
<td>Select materials for specific purposes.</td>
</tr>
<tr>
<td></td>
<td>Identify types of textiles and their applications in interior design.</td>
</tr>
<tr>
<td></td>
<td>Describe the characteristics and functions of upholstery construction materials.</td>
</tr>
<tr>
<td></td>
<td>Identify types and uses for hard- and soft-surface materials within an interior space.</td>
</tr>
<tr>
<td></td>
<td>Describe basic furniture construction details.</td>
</tr>
<tr>
<td></td>
<td>Describe basic cabinetry construction.</td>
</tr>
<tr>
<td></td>
<td>Describe the characteristics and functions of furniture construction materials.</td>
</tr>
<tr>
<td></td>
<td>Identify aspects of ergonomics as applied to furniture design.</td>
</tr>
<tr>
<td></td>
<td>Critique an interior space according to the elements and principles of design.</td>
</tr>
<tr>
<td></td>
<td>Apply the principles of color theory.</td>
</tr>
<tr>
<td></td>
<td>Determine the scope of a design project for an existing commercial or residential space.</td>
</tr>
<tr>
<td></td>
<td>Research products and design solutions to satisfy a client’s needs, preferences, and goals.</td>
</tr>
<tr>
<td></td>
<td>Design a space that fulfills a commercial or residential purpose.</td>
</tr>
<tr>
<td></td>
<td>Create a color scheme for a project, using the principles of color theory.</td>
</tr>
<tr>
<td></td>
<td>Select interior finishes for a project.</td>
</tr>
<tr>
<td>✱</td>
<td>Develop a budget and timeline for a design project.</td>
</tr>
<tr>
<td>✱</td>
<td>Determine the quantity of material needed to cover a given surface.</td>
</tr>
<tr>
<td>✱</td>
<td>Demonstrate arrangement of furniture, fixtures, and equipment (FF&amp;E) and accessories for a project.</td>
</tr>
<tr>
<td>✱</td>
<td>Create a presentation display for a client’s approval.</td>
</tr>
<tr>
<td>✱</td>
<td>Present a design with products that satisfy a client’s needs, preferences, and goals.</td>
</tr>
</tbody>
</table>

Legend: ✱Essential ☐Non-essential ☐Omitted

---

## Curriculum Framework

### Balancing Work and Family

---

#### Task Number 39

**Analyze the meaning of work and the meaning of family.**

#### Definition

Analysis should include

- evaluating work systems and family systems (structures)
- assessing characteristics of strong work and family organizations
- examining the evolution of the workforce
- identifying the rewards of work within and outside the family
- describing the roles and responsibilities of employees and family members
- determining the effects of interdependence on each member of the family
- evaluating ways in which the evolution of the family life cycle affects choices and decisions
- examining personal and family values.

#### Process/Skill Questions

**Thinking**

- What factors should be considered when analyzing work and family structures?
- What criteria should be used to assess work and family systems?
- How are the roles and responsibilities of employed workers and family members alike and different?
- How is the role of management in the workplace like or unlike the role of management in the family?
Communication

- How can the workplace be respectful of the family and individuals?
- How can one communicate the importance of work and family values?
- How can family members at different stages of the family life cycle communicate their values and choices?

Leadership

- What leadership techniques are needed to develop strategies for change?
- How can the family and the employer develop leadership skills in individuals?
- How can a leader develop family strategies for change?
- How can leadership skills be integrated into the family and the workplace?

Management

- How can one develop a life plan that reflects family values?
- How can an individual’s management skills be integrated into the family? Into the workplace?
- What resources can help determine work and family values?

National Standards for Family and Consumer Sciences Education

1.1.1
Summarize local and global policies, issues, and trends in the workplace, community, and family dynamics that affect individuals and families.

1.1.2
Analyze the effects of social, economic, and technological changes on work and family dynamics.

6.1.1
Analyze family as the basic unit of society.

6.1.4
Analyze the role of family in teaching culture and traditions across the life span.

FCCLA National Programs

Families First: Balancing Family and Career

Families First: Families Today

Families First: Meet the Challenge

Families First: Parent Practice

Families First: You-Me-Us

Power of One: A Better You

Power of One: Family Ties

Power of One: Take the Lead
Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Interpersonal Communications

Professional Presentation

---

Task Number 40

Compare how families affect work life and how work life affects families.

Definition

Comparison should include the financial, social, intellectual, emotional, and ethical issues involved in work and family roles.

Process/Skill Questions

Thinking

- What effects do technological changes in the workplace have on families?
- What are the benefits and disadvantages of work as it relates to family?
- What are the effects of family stress and/or change on the workplace?
- What effects might family life have on the financial issues of work? Social issues? Intellectual issues? Ethical issues?

Communication

- How can one communicate the importance of work life to family members and the importance of family life to those in the workplace?
- What communication skills help balance the effects of family life on work? Work life on families?

Leadership

- What leadership techniques are needed to develop strategies for change?
- How can the family and the employer develop leadership skills in individuals?
- How can leadership skills be integrated into the family and the workplace?

Management
• How can an individual’s management skills be integrated into the family? Into the workplace?
• What resources can help analyze and manage ways families are affected by work life and work is affected by family life?
• What management skills are needed to minimize the effects of family life on work and the effects of work on family life?
• What resources can help determine values toward work and families?

National Standards for Family and Consumer Sciences Education

1.1.1
Summarize local and global policies, issues, and trends in the workplace, community, and family dynamics that affect individuals and families.

1.1.2
Analyze the effects of social, economic, and technological changes on work and family dynamics.

1.1.4
Analyze potential effects of various career path decisions on balancing work and family.

1.1.5
Determine goals for life-long learning and leisure opportunities for all family members.

FCCLA National Programs

Families First: Balancing Family and Career

Families First: Families Today

Families First: Meet the Challenge

Families First: Parent Practice

Families First: You-Me-Us

Power of One: A Better You

Power of One: Family Ties

Power of One: Take the Lead

Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Interpersonal Communications

Professional Presentation
Task Number 41

Identify management strategies for balancing work and family roles.

Definition

Identification should include

- use of time
- prioritization of family and work responsibilities
- ways to handle stress
- health and safety issues
- conflict resolution
- family and work values
- stages of the family and career life cycle.

Process/Skill Questions

Thinking

- What is the relationship between the family’s circumstances and work productivity?
- Why is it important to a person, to the family, and to the employer to balance work and family roles?
- When is it appropriate for an employer to intervene in an employee’s personal/family life?
- How do management strategies for balancing work and family roles change as the family progresses through its life cycle?

Communication

- When is it appropriate for an employee to communicate personal/family problems to an employer?
- What communication skills are needed to develop strategies for balancing work and family roles?
- How can one communicate the importance of balancing work and family roles?

Leadership

- What leadership techniques help address and resolve conflict regarding work and family roles?
- What skills do family members need to become leaders?
- What criteria should be used to assess our efforts at balancing work and family roles?

Management

- What management skills are needed to set priorities at work and at home?
- How can one develop management strategies for balancing work and family roles?
- What management skills are needed to deal with issues at different stages of the family life cycle?

National Standards for Family and Consumer Sciences Education

1.1.6
Develop a life plan, including pathways to acquiring the knowledge and skills needed to achieve individual, family, and career goals.

2.1.1
Apply time management, organizational, and process skills to prioritize tasks and achieve goals.

**FCCLA National Programs**

**Families First: Balancing Family and Career**

**Families First: Meet the Challenge**

**Families First: You-Me-Us**

**FCCLA: STAR Events (2019)**

**Early Childhood Education**

**Focus on Children**

**Interpersonal Communications**

---

**Examining Professional Practices**

---

**Task Number 42**

**Determine the components of a project.**

**Definition**

Determination should include

- defining *project management*
- discussing project management processes and components, such as
  - contract
  - schedule
  - budget
  - building permits
  - project organization
  - documentation of decisions
  - project closeout.
Process/Skill Questions

Thinking

- What are the basic procedures of project management?
- What does it mean to manage a project?
- What skills and knowledge are needed to be a good project manager?

Communication

- What communication skills assist with managing a project effectively?
- What communication skills encourage effective teamwork in completing an assignment? In what ways can team members be motivated and encouraged?

Leadership

- What leadership skills or techniques will help a professional balance competing demands for a project’s scope, time, cost, risk, and quality?
- How can a professional encourage communication of feedback to make sure all persons connected with a project are appropriately involved?
- How can an interior design professional satisfy design-project stakeholders who have differing needs and expectations?

Management

- What project-management techniques assist with executing a design project?
- What resources assist with project management in interior design?
- What may be the consequences of using or not using project-management procedures for a design project?

National Standards for Family and Consumer Sciences Education

11.3.6
Demonstrate design processes such as determining the scope of the project, programming, research, concept development, schematic design, design drawing, and design development and presentation.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working
Task Number 43

Explain aspects of project coordination and contract administration.

Definition

Explanation includes

- construction timeline
- communication among members of the project team
- application of the design contract.

Process/Skill Questions

Thinking

- Why is a construction timeline important?
- What happens when deadlines on the timeline are not met?
- What are some characteristics of proper construction etiquette?

Communication

- What are some communication methods that can be used to keep all members of a project team informed? (e.g., email, Google Docs, conference calls)
- Why is communication important among all team members on a job site?
- Why are communication plans important?

Leadership

- Who oversees a construction site?
• What leadership qualities are necessary for each member of a construction team?
• What leadership skills are required to negotiate, support and manage effective contracts?

Management

• What project-management structure can be used to ensure that effective methods for planning, communicating, and decision making are in place?
• What are the essential elements of a design contract that apply to project coordination?
• What are strategies for managing uncooperative project team members? Ineffective project team members?

National Standards for Family and Consumer Sciences Education

11.3.6
Demonstrate design processes such as determining the scope of the project, programming, research, concept development, schematic design, design drawing, and design development and presentation.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation
Check the national FCCLA portal.

Event Management

Interior Design

Interpersonal Communications

National Programs in Action

Professional Presentation
Task Number 44

Identify the components of a design contract.

Definition

Identification may include

- explaining the meaning and purposes of a design contract with a client
- listing all components that may be included in a contract, such as
  - names of parties
  - costs/fees
  - references to working documents
  - schedules and/or timelines
  - bonds
  - responsibilities of each party
  - restrictions on each party
  - criteria for handling changes
  - warranties
  - cancellation conditions
- describing the Federal Trade Commission’s (FTC) three-day cooling-off rule
- citing the four main provisions of every valid and enforceable contract:
  1. Legality: legal product or service; no fraud or deception
  2. Competence: both parties mentally competent and of legal age
  3. Agreement: an offer and an acceptance
  4. Consideration: exchange of something of measurable value

Process/Skill Questions

Thinking

- What are the components that should be included in every contract?
- How does the federal three-day right to cancel rule apply to design contracts?
- What are the consequences if the interior designer does not provide the client copies of the three-day right to cancel forms?

Communication

- What communication skills assist with understanding a contract?
- What communication strategies help a professional come to an understanding with a client about the important aspects of the design process?
- What communication skills assist with drafting a valid and enforceable contract?

Leadership

- What leadership skills or techniques assist with negotiating a contract with a client?
- How can a professional communicate effectively in a contract the elements of a design project?
Management

- What resources assist with the use of contracts in interior design work?
- What management techniques can assist in negotiating a contract with a client?
- What steps should be taken to be certain that the terms of a contract are followed throughout a design project?

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Check the national FCCLA portal.

Event Management

Interior Design

Interpersonal Communications

National Programs in Action

Professional Presentation

Task Number 45

Identify credentialing options for an interior designer.

Definition

Identification should include the role of
• legislation and regulation in Virginia and other states
• accreditation, licensure, and certification in Virginia and other states
• examinations
• experience.

Process/Skill Questions

Thinking

• What credentials can an interior designer acquire? What are the benefits of acquiring these credentials?
• What are the licensure requirements for an interior designer in Virginia? For an interior designer elsewhere?
• What would be the consequences of not acquiring credentials?

Communication

• What communication skills assist with the acquisition of credentials as an interior designer?
• What communication skills must one have to investigate credentialing opportunities?

Leadership

• What leadership skills assist with the acquisition of credentials as an interior designer?
• How can a professional become recognized and respected as an interior designer?

Management

• What management skills assist with the acquisition of credentials as an interior designer?
• What resources assist with the investigation of credentialing opportunities in interior design?

National Standards for Family and Consumer Sciences Education

11.1.3
Summarize education, training, and credentialing requirements and opportunities for career paths in housing and interior design.
11.1.6
Analyze the role of professional organizations in housing and interior design professions.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You
Task Number 46

Examine business practices and procedures used in the interior design industry.

Definition

Examination should include

- types of business structures (e.g., sole proprietorship, partnership, joint venture, limited liability corporation [LLC])
- business roles (e.g., principal designer, associate designer, design assistant, project manager)
- billing procedures and fee structures
- customer service
- business communication
- receiving, inspection, and inventory procedures
- accounting and taxes
- insurance requirements
- outsourcing
- use of to-the-trade vendors, understanding of net payment terms (e.g., “1% 10 net 30”) and manufacturer suggested retail price (MSRP).

Process/Skill Questions

Thinking

- What are the advantages and disadvantages of each type of business structure?
- What responsibilities fall under each role in an interior design business?
- What is the difference between a policy and a procedure?
Communication

- How does one assess proper business practices and procedures used in the interior design industry?
- What problems might arise from a lack of communication in an interior design business?
- What communication skills are necessary when working with clients?

Leadership

- What leadership skills assist with the development of business practices and procedures for an interior design business?
- How does a professional achieve a leadership role in an interior design business?
- What qualities make a strong leader in an interior design business?

Management

- What resources are available to help develop business practices and procedures for an interior design business?
- What management qualities are necessary on an interior design project site?
- What are some relationships that must be managed within an interior design business structure?

National Standards for Family and Consumer Sciences Education

11.3
Apply residential and commercial interior design knowledge, skills and processes to meet specific design needs.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Check the national FCCLA portal.

Entrepreneurship

Interior Design
Task Number 47

Evaluate marketing procedures for design services and products.

Definition

Evaluation should include

- selling strategies
- unique selling proposition (USP)
- branding
- visual materials
- the role and effectiveness of advertising
- social media strategies
- promotional activities.

Process/Skill Questions

Thinking

- What makes a marketing and advertising strategy effective?
- What are the steps to developing a sales plan?
- How do interior design professionals match products and services to the needs of the client?

Communication

- What are the most effective ways of communicating to potential clients the benefits of purchasing products or services?
- How has technology changed advertising?
- How can technology help attract potential clients?

Leadership

- How do interior design professionals develop marketing plans for design services and products?
- How can interior design professionals effectively brand a product or company?
- What leadership qualities make a successful sales person?

Management

- What training is necessary to create digital marketing tools?
- What resources are available to create digital marketing and advertising tools?
• How can digital tools help keep client and company information secure?

National Standards for Family and Consumer Sciences Education

11.8
Analyze professional practices and procedures for business profitability and career success, and the role of ethics in the housing, interiors and furnishings industries.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Interpersonal Communications

National Programs in Action

Professional Presentation

Task Number 48

Maintain a career portfolio.

Definition

Maintaining a career portfolio should include updating and supplementing
• statement of career plan and goals
• résumé that lists
  o job skills
  o experience
  o education
  o certifications
  o professional organization involvement
  o community service
  o awards and recognition
  o professional references
• documentation of work samples (e.g., photographs, descriptions, storyboards)
• completed job application form, if applicable.

**Process/Skill Questions**

**Thinking**

• How are career portfolios used in the workplace?
• Can a career portfolio ever be too large? Why, or why not?

**Communication**

• Why is it important to keep a career portfolio up to date? How does a professional determine when to update it?
• Why is a career portfolio never finished?

**Leadership**

• How are career portfolios helpful?
• What technology is available to maintain an electronic career portfolio?

**Management**

• What skills are required to maintain a professional career portfolio?
• What professional resources are available to help with maintaining a career portfolio?
• How are career portfolios assessed?

**National Standards for Family and Consumer Sciences Education**

**11.1.5**
Create an employment portfolio to communicate housing and interior design careers knowledge and skills.

**FCCLA National Programs**

**Career Connection: My Career**

**Career Connection: My Life**

**Career Connection: My Path**
Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Career Investigation

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Interpersonal Communications

Job Interview

National Programs in Action

Understanding Construction

Task Number 49

Analyze the components of professional working documents.

Definition

Analysis should include

- symbols used for structural, electrical, plumbing, and mechanical components
- architectural lines
- renderings
- floor plans
- reflected ceiling plans with wiring plan
- wall elevations
- three-dimensional drawings
• specifications.

Process/Skill Questions

Thinking

• What are the standard floor plan symbols?
• What legal issues must be addressed in a functional set of working drawings?
• What criteria should be used to evaluate the effectiveness of a functional set of working drawings?

Communication

• How are working drawings a form of communication?
• How can one ensure accurate communication of design concepts to contractors and the client?

Leadership

• What leadership skills are necessary to establish and maintain effective communication with clients, architects, contractors, and vendors?
• How can leadership style affect relationships with clients, architects, contractors, and vendors?

Management

• What training and resources help maintain positive collaborative relationships with clients, architects, contractors, and vendors?
• How can an interior design professional best manage the amount of design information that is needed by clients, architects, contractors, and vendors?

National Standards for Family and Consumer Sciences Education

11.4
Demonstrate design, construction document reading, and space planning skills required for the housing, interior design and furnishings industries.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working
FCCLA: STAR Events (2019)

Career Investigation

Check the national FCCLA portal.

Entrepreneurship

Interior Design

National Programs in Action

---

Task Number 50

Analyze structural components of a building.

Definition

Analysis should include

- foundation
- floor
- walls (load-bearing vs. non-load-bearing)
- windows and doors
- roof.

Process/Skill Questions

Thinking

- What methods can be used to assess the relative merits of various materials?
- What environmental factors may influence the assessment of a material?

Communication

- What communication skills are necessary to assess a variety of exterior finishing materials?
- How can one communicate assessment standards to a client?

Leadership

- How can environmental influences be considered when assessing building materials?
- What governmental/industry regulations are associated with building?

Management

- What training and resources must one have when choosing materials for a building?
• What strategies will help when selecting materials for a building?

FCCLA National Programs
Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)
Career Investigation
Check the national FCCLA portal.
Entrepreneurship
Interior Design

Task Number 51

Identify sustainable practices in the interior design industry.

Definition

Identification should include the results of research into

• indoor air quality
• lighting and views
• sustainable materials.

Process/Skill Questions

Thinking

• What are the various types of heating systems? How do they compare?
• What are the three forms of insulation? From what materials are the different forms of insulation made?
• What criteria should be used to select insulation for an application? What are some potential consequences of selecting inappropriate insulation?

Communication

• How can an interior design professional communicate to a client the importance of using energy-efficient materials and systems?
• How should one select energy-efficient materials and systems?

Leadership

• How does one implement the use of sustainable practices in the interior design industry?

Management

• What training and resources assist with the inclusion of energy-efficient materials and systems in a design project?

National Standards for Family and Consumer Sciences Education

11.9
Develop a global view to weigh design decisions with the parameters of sustainability, socioeconomic, and cultural contexts within the housing, interior design, and furnishings industries.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Sustainability Challenge
Task Number 52

Identify the basic components of electrical and mechanical systems.

Definition

Identification should include the basic components of electrical; heating, ventilation, and air conditioning (HVAC); and plumbing systems.

Process/Skill Questions

Thinking

• What are the basic electrical terms and their meanings?
• What are the mechanical systems in a building? How do they interconnect?
• What are the local code requirements for electrical and mechanical systems, especially as they may relate to interior design?

Communication

• How can an interior design professional effectively convey information about electrical and mechanical systems?
• How can one communicate local code requirements for electrical and mechanical systems to a client?

Leadership

• How can a professional specify electrical and mechanical systems that conserve energy, meet codes, and satisfy a client’s wishes?
• How can one evaluate guidelines to determine their effectiveness in achieving high efficiency electrical and mechanical systems?

Management

• What training and resources assist with the selection of code-compliant, energy-efficient electrical and mechanical systems in a design project?
• How can an interior design professional manage a client's wishes about electrical and mechanical systems in view of the requirements of local codes?

National Standards for Family and Consumer Sciences Education

11.4.2
Evaluate floor plans for efficiency and safety in areas including but not limited to zones; traffic patterns; storage; and electrical, plumbing, ventilation, and thermal systems.

FCCLA National Programs
Task Number 53

Identify types and characteristics of lighting used in interior spaces.

Definition

Identification should include

- basic properties of light
- measurement of light in standard units (e.g., foot-candles, lumens)
- characteristics of incandescent light, halogen light, fluorescent light, light emitting diode (LED), and fiber optics, including comparisons of energy consumption
- functions of lighting (i.e., general, task, accent).

Process/Skill Questions

Thinking

- What are the properties of light?
- How is light measured? What does wattage measure?
- Why must the intensity of light be measured?
- How might interior designers use fiber optics?

Communication
• What communication skills are necessary to gather and evaluate information regarding lighting?
• How can an interior design professional determine and evaluate the lighting requirements of a design project?

Leadership

• What techniques may assist with gathering lighting information pertinent to a design project?
• How a leader take responsibility for evaluating the lighting information gathered?

Management

• What management skills are involved in a search for lighting information?
• What resources must help when evaluating lighting information?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation
Understanding Materials Used in Interior Design

Task Number 54

Select materials for specific purposes.

Definition

Selection should include an explanation of how the selected materials (i.e., textiles, surface finishes, lighting, furniture, and fixtures) fulfill the identified purposes.

Process/Skill Questions

- What considerations can individuals use to decide which materials are best for specific purposes?
- How does an interior design professional know that a material selection will fulfill the identified purpose(s)?

Communication

- What questions should be asked to assess whether a material selection will satisfy the identified purpose(s)?

Leadership

- What leadership skills must individuals have to examine, assess, and apply information about the appropriateness of materials for specific purposes?

Management

- What resources are available to help individuals examine, assess, and select appropriate materials for specific purposes?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

FCCLA National Programs

Career Connection: My Career
Task Number 55

Identify types of textiles and their applications in interior design.

Definition

Identification should include

- types of fibers (e.g., natural and synthetic, blended) and the pros and cons of using each
- fabric construction methods (e.g., woven, knit, jacquard)
- fabric production methods
- durability
- interpretation of fabric labeling.

Process/Skill Questions

Thinking

- How does a knowledge of fibers promote a knowledge of textiles?
- What characteristics of fibers should be considered when deciding which textiles to use for various purposes in an interior design plan?
- What environmental considerations relate to the use of natural vs. man-made fibers in interior textiles?

Communication
• How do professionals evaluate interior fibers and textiles?
• How can interior designers communicate the benefits of fiber choices to the client?

Leadership

• How do professionals apply knowledge of fibers and textiles to the selection of textiles in an interior design project?
• Why do fiber and textile standards and labeling exist?

Management

• What criteria may help make decisions concerning textiles used in an interior design plan?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)
Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation

Task Number 56
Describe the characteristics and functions of upholstery construction materials.

Definition

Description should include

- the characteristics (including fire resistance), sustainability, maintenance, and functions of the following materials:
  - Fill materials
  - Cushions
  - Coverings
  - Accent materials
- the common differences between residential and commercial upholstery construction materials.

Process/Skill Questions

Thinking

- What are common upholstery construction materials? How might one compare the characteristics of each? What are the common uses of each?
- What criteria should be used to evaluate upholstery construction materials?
- What consequences may result from failing to recognize and understand upholstery construction materials?

Communication

- What communication skills must be acquired to understand and assess upholstery construction materials?
- How can individuals communicate to a client the importance of considering the wide variety of upholstery construction materials available and the appropriate applications of each?

Leadership

- How can interior design professionals ensure that materials used in the construction of upholstered furniture have been adequately addressed?

Management

- What training and resources must individuals have to develop a working knowledge of upholstery construction materials?
- How can individuals gain specialized knowledge of unusual upholstery construction materials when needed?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

**FCCLA National Programs**

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

**FCCLA: STAR Events (2019)**

Check the national [FCCLA portal](https://www.fcclanational.org).

Entrepreneurship

Interior Design

Professional Presentation

---

**Task Number 57**

**Identify types and uses for hard- and soft-surface materials within an interior space.**

**Definition**

Identification should include consideration of

- material properties
- durability
- purpose
- safety (e.g., flammability).

**Process/Skill Questions**

Thinking
• What soft materials are best in terms of safety?
• What are the consequences of not considering safety factors when choosing surface materials?

Communication

• How might an interior designer communicate an emphasis on material durability and cost to assist a client?

Leadership

• What leadership skills must individuals have to examine, assess, and apply information about the appropriateness of materials for specific purposes?

Management

• What training and resources must individuals have to develop a working knowledge of hard- and soft-surface materials?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation
Understanding Furniture and Cabinetry Design

Task Number 58

Describe basic furniture construction details.

Definition

Description should include standard construction details of

- wooden furniture (structure, types of joints, drawers, doors, hinges, pulls, knobs, finishes)
- upholstered furniture (frames, springs)
- beds (frames, springs, mattresses)
- plastic furniture
- metal furniture
- rattan, wicker, and bamboo furniture.

Process/Skill Questions

Thinking

- What are the basic construction details of furniture? What are the important defining characteristics of each?
- What criteria should be used to evaluate furniture construction?
- What consequences may result from failing to recognize and understand furniture construction?

Communication

- What communication skills must be acquired to understand and assess furniture construction?
- How can individuals communicate to a client the importance of considering furniture construction?

Leadership

- How can individuals ensure that furniture construction has been adequately addressed?

Management

- What training and resources must individuals have to develop knowledge of furniture construction?
- How can individuals gain specialized knowledge of furniture construction details?

FCCLA National Programs
Task Number 59

Describe basic cabinetry construction.

Definition

Description should include standard construction details of cabinets (structure, types of joints, drawers, doors, hinges, pulls, knobs, finishes).

Process/Skill Questions

Thinking

- What are the basic construction details of cabinets? What are the important defining characteristics of each?
- What criteria should be used to evaluate cabinet construction?
- What consequences may result from failing to recognize and understand cabinet construction?

Communication

- What communication skills assist in the assessment of cabinet construction?
- How can individuals communicate to a client the importance of cabinet construction?
Leadership

- How can interior design professionals adequately address cabinet construction?

Management

- What training and resources help professionals develop a working knowledge of cabinet construction?
- How can individuals gain specialized knowledge about cabinets?

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation

Task Number 60

Describe the characteristics and functions of furniture construction materials.

Definition

Description should include

- the characteristics, sustainability, and functions of
  - common hardwoods and softwoods, including the characteristics of the grain
  - solid wood vs. veneered wood
• composite materials (e.g., medium-density fiberboard [MDF], particleboard)
• plastics
• metals
• glass
• rattan, wicker, and bamboo
• the common differences between residential and commercial furniture construction materials.

**Process/Skill Questions**

**Thinking**

• What are common furniture construction materials? What are the defining characteristics of each?
• How can one evaluate furniture construction materials?
• What consequences may result from failing to understand furniture materials?

**Communication**

• How do interior design professionals assess furniture construction materials?
• How can interior design professionals communicate to clients the wide variety of furniture construction materials available and the appropriate applications of each?

**Leadership**

• How can interior design professionals ensure that furniture materials have been adequately addressed?

**Management**

• How do professionals develop a working knowledge of common furniture construction materials?
• How can interior design professionals gain specialized knowledge of furniture construction materials when needed?

**FCCLA National Programs**

**Career Connection: My Career**

**Career Connection: My Life**

**Career Connection: My Path**

**Career Connection: My Skills**

**Power of One: A Better You**

**Power of One: Working on Working**

**FCCLA: STAR Events (2019)**

Check the national [FCCLA portal](#).
Task Number 61

Identify aspects of ergonomics as applied to furniture design.

Definition

Identification should include

- a definition of ergonomics
- a description of common ergonomic requirements
- an explanation of ergonomic planning
- ergonomics for various user needs (e.g., child desk vs. desk for a person in a wheelchair).

Process/Skill Questions

Thinking

- Why is it important for an interior designer to understand ergonomics?
- In what ways can ergonomics be applied in interior design scenarios?
- What human factors should be considered when applying ergonomics to furniture design?

Communication

- How can an interior designer communicate with clients to determine ergonomic needs?
- What communication skills are essential for working with manufacturers?

Leadership

- What leadership skills must individuals have to apply ergonomic planning successfully?
- How can interior design professionals encourage feedback from all stakeholders involved in an ergonomic furniture design project?
- How can individuals assess the success of ergonomically designed furniture?

Management

- What training may help professionals apply ergonomics to furniture design?
- How can interior design professionals balance a client’s wishes with ergonomic considerations?
- What project-management techniques can interior design professionals use to execute an ergonomic furniture design project?
National Standards for Family and Consumer Sciences Education

11.2.4 Apply principles of human behavior, ergonomics, and anthropometrics to design of housing, interiors, and furnishings.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation

Applying the Elements and Principles of Design

Task Number 62

Critique an interior space according to the elements and principles of design.

Definition

Critique should include
how the given interior space exemplifies or does not exemplify each element and principle of design
degree to which the given interior space meets the goals of design—function and appropriateness, harmony with unity and variety, and beauty.

**Process/Skill Questions**

Thinking

- What are the elements and principles of design? How is each used in the creation of an interior design?
- How can a given interior space be evaluated according to how well it exemplifies appropriate use of the elements and principles of design? How can it be rated?

Communication

- How can interior design professionals communicate evaluation of a given interior space in terms of its use of the elements and principles of design?

Leadership

- What leadership skills should be acquired to evaluate a given interior space in terms of its use of the elements and principles of design?

Management

- What training and resources must individuals have to evaluate a given interior space in terms of its use of the elements and principles of design?
- In what ways can individuals use an evaluation of an interior space? How might the evaluation enhance the space?

**National Standards for Family and Consumer Sciences Education**

**11.2.1**
Evaluate the use of elements and principles of design in housing and commercial and residential interiors.

**FCCLA National Programs**

**Career Connection: My Career**

**Career Connection: My Life**

**Career Connection: My Path**

**Career Connection: My Skills**

**Power of One: A Better You**

**Power of One: Working on Working**
Task Number 63

Apply the principles of color theory.

Definition

Application should include

- properties of color
- effect of light on color
- psychology of color
- color combinations/schemes.

Process/Skill Questions

Thinking

- Why is it important for an interior designer to understand the principles of color theory?
- How does a designer use the properties of color in a design plan?
- How does a designer take into consideration the effect of light on color?

Communication

- How can interior design professionals evaluate a client’s request with regard to color?
- How can designers articulate to clients how the principles of color theory are applied in projects?

Leadership

- What leadership skills assist with incorporating the principles of color theory in a project while satisfying client requirements?
- How can designers evaluate guidelines regarding the application of the principles of color theory to a project?

Management
• How can designers apply the principles of color theory in a project?
• How can designers manage a client's wishes about color in a design project while applying the principles of color theory?

National Standards for Family and Consumer Sciences Education

11.2.1
Evaluate the use of elements and principles of design in housing and commercial and residential interiors.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Interior Design

Professional Presentation

Developing a Design

Task Number 64

Determine the scope of a design project for an existing commercial or residential space.
Definition

Determination of the scope (also called *programming*) should include

- researching client needs, preferences, and goals (e.g., ascertaining client attitudes, brand preferences)
- differentiating client needs and preferences
- identifying the processes that can be used to pinpoint the client’s goals, preferences, and needs
- identifying adjacencies (proximities of various spaces based on the client’s needs/preferences)
- using evidence-based design
- researching the scope of the project
- summarizing ideas in writing for client approval (e.g. completing an adjacency/criteria combination matrix).

Process/Skill Questions

Thinking

- What is the meaning of the word *programming* in relation to the interior design process?
- What defines a need of a client? How do needs differ from preferences or wants?
- How can a proposed design plan meet a client's needs?

Communication

- What communication skills help determine and document a client's goals, preferences, needs, and resources?
- How can a client’s needs be distinguished from his/her wants? How can an interior design professional help a client make this distinction?
- What information helps define client needs and wants? How can an interior design professional get this information?

Leadership

- What leadership skills assist in creating designs that fully meet the needs of a client?
- How can an interior design professional help when a client confuses wants with needs, identified needs conflict with wants, or when needs and wants conflict with established budget restrictions?
- How can an interior design professional ensure the design meets client needs?

Management

- How can an interior design professional confirm an understanding of a client's goals, preferences, needs, and resources?
- How can interior design professionals ensure that final design decisions will meet all identified needs?

National Standards for Family and Consumer Sciences Education

11.6
Evaluate client's needs, goals, and resources in creating design plans for housing and residential and commercial interiors.
FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national [FCCLA portal](#).

Entrepreneurship

Interior Design

Interpersonal Communications

National Programs in Action

Professional Presentation

---

**Task Number 65**

**Research products and design solutions to satisfy a client’s needs, preferences, and goals.**

**Definition**

Research should include

- using resources to identify and select suitable products, such as
  - interior finish materials
  - lighting
  - plumbing fixtures
  - textiles for various treatments
  - furniture, fixtures, and equipment (FF&E)
  - cabinetry
  - accessories
• identifying and selecting suitable design solutions to specific problems
• documenting how the selected products and design solutions will satisfy the client’s needs, preferences, and goals.

**Process/Skill Questions**

**Thinking**

• How can research of product or design information help satisfy a client’s preferences and needs?
• How can interior design professionals ascertain whether the product and design information found is accurate and current?

**Communication**

• What communication skills assist with gathering and evaluating product information?
• How can a professional communicate to the client how selected products will satisfy identified preferences and needs?

**Leadership**

• How do professionals gather all product and/or design information pertinent to a design project?
• How can interior design professionals take responsibility for evaluating the product and/or design information gathered?
• How can interior design professionals conduct research to identify product and/or design information?

**Management**

• What management skills are involved in a search for product and/or design information?
• What resources assist with gathering and evaluating product and/or design information?
• How should product and/or design information be organized?

**National Standards for Family and Consumer Sciences Education**

11.3 Apply residential and commercial interior design knowledge, skills and processes to meet specific design needs.

11.6 Evaluate client's needs, goals, and resources in creating design plans for housing and residential and commercial interiors.

**FCCLA National Programs**

**Career Connection: My Career**

**Career Connection: My Life**

**Career Connection: My Path**

**Career Connection: My Skills**
Task Number 66

Design a space that fulfills a commercial or residential purpose.

Definition

Design may include

- evidence of space planning for the given purpose
- drawings (i.e., floor plan, wall elevations) of the furnished space
- analysis of the floor plan for efficiency and safety with regard to universal design concepts, building codes, activity zones, traffic patterns
- explanation of how the design satisfies the needs
- concepts of universal design
- concepts of wayfinding
- concepts of ergonomics
- concepts of designing the space for use by a person with special needs, including reference to standards set by the Americans with Disabilities Act (ADA).

Process/Skill Questions

Thinking

- What is the purpose of the residential or commercial space?
- What space planning is needed to ensure that the design will satisfy the purpose?
- What are the floor space requirements and other design needs generated by the purpose?
Communication

- What information is required to define the purpose and requirements of the space to be designed?
- How can interior design professionals communicate to the client a concept of a space design that will meet a specific purpose?

Leadership

- How can professionals succeed in designing spaces that meet specific residential or commercial purposes?
- How can interior design professionals be certain that the design for a space meets the defined purpose of that space?

Management

- How do professionals decide the best way to develop a design for a space that meets the purpose of that space?
- What resources can help professionals develop proficiency in designing spaces?

National Standards for Family and Consumer Sciences Education

11.4
Demonstrate design, construction document reading, and space planning skills required for the housing, interior design and furnishings industries.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Event Management

Interior Design
**Task Number 67**

Create a color scheme for a project, using the principles of color theory.

**Definition**

Creation of color scheme should include

- documenting the color scheme by means of a presentation
- explaining how the color scheme satisfies the scope of the project.

**Process/Skill Questions**

**Thinking**

- What are the standard color schemes? How are they defined by the principles of color theory?
- What factors influence the selection of a color scheme for a project?

**Communication**

- What communication skills assist with understanding and applying information about color to be used in an interior design project?
- How can an interior design professional communicate to a client the features, advantages, and disadvantages of colors to be used in a project?

**Leadership**

- What leadership skills assist with implementing a color scheme that satisfies a client's wishes and holds up well over time?
- How can professionals evaluate how well color guidelines have been used to make decisions about a color scheme for a project?

**Management**

- What training and resources assist with using the principles of color theory in a design project?
- How can professionals manage a client's wishes about color in relation to the principles of color theory and their application in interior design?
11.2.1
Evaluate the use of elements and principles of design in housing and commercial and residential interiors.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Interior Design
Interpersonal Communications
Professional Presentation

Task Number 68

Select interior finishes for a project.

Definition

Selection should include

- floor coverings
- wall finishes
- ceilings
- wood finishes (e.g., millwork, cabinetry, surfaces).

Selection should be in accordance with the elements and principles of design and should satisfy the scope of the project.
Process/Skill Questions

Thinking

- What are the characteristics of common interior finishing materials used for floor coverings, wall finishes, ceilings, cabinetry, and countertops?
- Why should the degree of environmental friendliness of these materials be considered important?

Communication

- What communication skills assist with the selection of interior finishing materials to be used in a client’s interior design project?
- How can an interior design professional communicate to a client the features, advantages, and disadvantages of interior finishing materials?

Leadership

- What leadership skills assist with the inclusion of finishing materials that satisfy a client’s wishes and hold up well over time?
- How can a professional evaluate how well materials guidelines have been used to guide decisions about interior finishing materials for a project?

Management

- What training and resources assist with the inclusion of interior finishing materials in a design project?
- How can a professional manage a client's wishes about interior finishing materials while accounting for the degrees of integrity of the materials?

National Standards for Family and Consumer Sciences Education

11.3.1
Analyze product information, including but not limited to floor coverings, wall coverings, textiles, window treatments, furniture, lighting fixtures, kitchen and bath fixtures and equipment.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working
Task Number 69

Develop a budget and timeline for a design project.

Definition

Development must include

- the cost of executing all design components
- the costs of purchasing, delivering, and installing all planned interior finish materials, equipment, and furnishings
- the projected schedule of completion for each step in the design process.

Process/Skill Questions

Thinking

- What is the scope of a project? Why is a statement of a project’s scope necessary in planning the project and developing its budget?
- What are the criteria for determining how to allocate the available funds for the various aspects of a project?
- Why is a timeline for a project important for the designer? For the client?

Communication

- How can an interior design professional ascertain a client’s total allowable expense for a project?
- What is an effective way to communicate to a client the budget-allocation decisions for a project?
- How can an interior design professional describe a vision for a project to a client to justify budget decisions?

Leadership

- What leadership skills assist with influencing a client’s budget decisions?
- What leadership skills assist in the creation of a realistic timeline for a project?

Management
• How can an interior design professional determine cost-effective sources for and methods of acquiring materials and products for a project?
• What management skills are needed for creating a timeline for a project?

National Standards for Family and Consumer Sciences Education

11.3.6
Demonstrate design processes such as determining the scope of the project, programming, research, concept development, schematic design, design drawing, and design development and presentation.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Interior Design

Interpersonal Communications

Task Number 70

Determine the quantity of material needed to cover a given surface.

Definition

Determination should include

• use of formulas to calculate the quantity needed
• consideration of pattern repeat when determining necessary quantity of a floor covering, wall covering, window treatment material, or upholstery material
• calculation and addition of industry-recommended extra quantity, if any.
Process/Skill Questions

Thinking

- What tasks in entry-level interior design jobs include determining quantities of interior finish materials? What are common formulas used in these tasks?
- Why is it important to calculate and include industry-recommended extra quantity?
- How can a paint's listed rate of coverage help determine the quantity needed?

Communication

- What mathematics skills are required for determining the quantity of interior finish materials to cover a given space?
- What mathematics skills help determine the quantity of materials to cover given surfaces?

Leadership

- How can one gain the mathematics skills needed for employment?
- What are the goals of determining the quantity of interior finish materials to cover a given space? What considerations are necessary?

Management

- What resources are available to help improve mathematics skills?
- What criteria should be used to evaluate mathematics skills?

National Standards for Family and Consumer Sciences Education

11.3.3
Demonstrate measuring, estimating, ordering, purchasing, pricing, and repurposing skills.

FCCLA National Programs

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.
Task Number 71

Demonstrate arrangement of furniture, fixtures, and equipment (FF&E) and accessories for a project.

Definition

Demonstration may include

- selecting items to satisfy the scope of the project
- analyzing selections
- arranging furniture symbols or templates on the floor plan with consideration of room and furniture use, architectural features, traffic patterns, recommended clearances, universal design concepts, and building codes
- selecting lighting and plumbing fixtures to satisfy the scope of the project in accordance with the elements and principles of design, universal design concepts, and building codes
- compiling a list of all selected FF&E and accessories.

Process/Skill Questions

Thinking

- How can one prioritize FF&E needs for a project, if budget restrictions prevent all items from being purchased at once?
- What are the common sources of FF&E?
- When are the best times to shop for FF&E?

Communication

- What communication skills are necessary to select and arrange FF&E?
- How can one communicate to a client the basis for selections? The reasons for arrangements?
- How can communication skills assist in the purchasing of FF&E?

Leadership

- What leadership skills assist with selecting and arranging FF&E?
- How can a professional manage the effects of selections and arrangements on the work of architects and contractors involved in a project?
- What management skills are useful in reconciling differences regarding FF&E selection and arrangement?
Management

- What resources assist with the selection of FF&E?
- How do professionals decide where to shop for FF&E?
- What are the best sources of information about FF&E?

**National Standards for Family and Consumer Sciences Education**

11.4.4
Arrange furniture placement with reference to principles of design, traffic flow, activity, and existing architectural features.

**FCCLA National Programs**

Career Connection: My Career

Career Connection: My Life

Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

**FCCLA: STAR Events (2019)**

Check the national [FCCLA portal](#).

**Entrepreneurship**

**Event Management**

**Interior Design**

**National Programs in Action**

---

**Task Number 72**

Create a presentation display for a client’s approval.

**Definition**

Creation should include
• floor plans, wall elevations, and/or presentation drawings
• shop drawings
• flooring samples
• paint and wall-covering samples
• ceiling-treatment samples
• textile samples
• furniture representations
• accessory representations
• a report summarizing the scope of the project and describing how the design will fulfill the client’s needs, goals, and preferences
• use of interior design terminology, such as
  o punch lists
  o spec books
  o bubble diagrams
  o presentation techniques
  o rendering techniques
  o memo sample
  o cut for approval (CFA)
  o change orders.

**Process/Skill Questions**

**Thinking**

• What factors should be considered when selecting studio tools?
• What should be the standards when selecting design ideas for a visual presentation? For an oral or written report?
• Whose interests are served when choosing appropriate presentation media? What criteria should be considered in selecting appropriate media?

**Communication**

• What communication skills are essential to present an effective oral report? To write an effective written report? To design an effective visual presentation?
• What questions should be asked of the client to help clarify the presentation of ideas in an oral report? In a written report? In a visual presentation?
• What are the consequences of poor communication skills when developing an oral report? When developing a written report? When developing a visual presentation?

**Leadership**

• How does one ensure that the design goals are communicated through a report or presentation?
• What are the consequences of selecting inappropriate media when developing a visual presentation?
• How should interior design professionals handle personal feelings when delivering an oral report? A written report? A visual presentation?

**Management**
• What resources assist with preparing oral and written reports and visual presentations? What resources might assist with selecting appropriate media for a visual presentation?
• How can the criteria developed for a visual presentation determine the final design being developed?

National Standards for Family and Consumer Sciences Education

11.7  
Apply design knowledge, skills, processes, and theories and oral, written, and visual presentation skills to communicate design ideas.

FCCLA National Programs

Career Connection: My Career
Career Connection: My Life
Career Connection: My Path
Career Connection: My Skills
Power of One: A Better You
Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship
Event Management
Interior Design
Interpersonal Communications
National Programs in Action
Professional Presentation

Task Number 73

Present a design with products that satisfy a client’s needs, preferences, and goals.
**Definition**

Presentation should include

- oral explanations of the items, including how they meet the client’s stated preferences and needs
- responses to and documentation of the client’s comments and questions
- openness to design changes that the client may express during the presentation.

**Process/Skill Questions**

**Thinking**

- What information is needed to present a design plan that satisfies a client's goals, preferences, needs, and resources?
- What should be the standards for presenting a design plan that meets a client's goals, preferences, needs, and resources?
- What alternatives might have positive effects for the client?

**Communication**

- What communication skills are essential when presenting a design plan to a client?
- What questions should be asked to clarify/verify a client's goals, preferences, needs, or resources?
- What are the consequences of presenting a design plan to a client without first gathering client input?

**Leadership**

- What leadership skills assist with presenting a design plan that satisfies a client's goals, preferences, needs, and resources?
- How do professionals meet client's goals, preferences, needs, and resources when presenting a design plan?
- What steps should be taken to help build consensus between client and designer during the presentation?

**Management**

- What steps must be taken to present a design plan that satisfies the client's goals, preferences, needs, and resources?
- What resources assist with presenting a design plan?

**National Standards for Family and Consumer Sciences Education**

11.7
Apply design knowledge, skills, processes, and theories and oral, written, and visual presentation skills to communicate design ideas.

**FCCLA National Programs**

**Career Connection: My Career**

**Career Connection: My Life**
Career Connection: My Path

Career Connection: My Skills

Power of One: A Better You

Power of One: Working on Working

FCCLA: STAR Events (2019)

Check the national FCCLA portal.

Entrepreneurship

Event Management

Interior Design

Interpersonal Communications

National Programs in Action

Professional Presentation

---

**SOL Correlation by Task**

<table>
<thead>
<tr>
<th>Task</th>
<th>Activity</th>
<th>English: 11.3, 11.5, 12.3, 12.5</th>
<th>English: 11.5, 12.5</th>
<th>History and Social Science: WHII.8</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>Analyze the meaning of work and the meaning of family.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Compare how families affect work life and how work life affects families.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Identify management strategies for balancing work and family roles.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Determine the components of a project.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>Explain aspects of project coordination and contract administration.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Identify the components of a design contract.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Identify credentialing options for an interior designer.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Examine business practices and procedures used in the interior design industry.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Evaluate marketing procedures for design services and products.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Maintain a career portfolio.</td>
<td>English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>49</td>
<td>Analyze the components of professional working documents.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Analyze structural components of a building.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Identify sustainable practices in the interior design industry.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Identify the basic components of electrical and mechanical systems.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>Identify types and characteristics of lighting used in interior spaces.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Select materials for specific purposes.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Identify types of textiles and their applications in interior design.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Describe the characteristics and functions of upholstery construction materials.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Identify types and uses for hard- and soft-surface materials within an interior space.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>Describe basic furniture construction details.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>Describe basic cabinetry construction.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60</td>
<td>Describe the characteristics and functions of furniture construction materials.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Identify aspects of ergonomics as applied to furniture design.</td>
<td>English: 11.3, 11.5, 12.3, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>62</td>
<td>Critique an interior space according to the elements and principles of design.</td>
<td>English: 11.1, 12.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>Apply the principles of color theory.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>Determine the scope of a design project for an existing commercial or residential space.</td>
<td>English: 11.5, 11.6, 11.7, 12.5, 12.6, 12.7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Research products and design solutions to satisfy a client’s needs, preferences, and goals.</td>
<td>English: 11.5, 11.8, 12.5, 12.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>Design a space that fulfills a commercial or residential purpose.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>Create a color scheme for a project, using the principles of color theory.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>Select interior finishes for a project.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Develop a budget and timeline for a design project.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>Determine the quantity of material needed to cover a given surface.</td>
<td>Mathematics: A.1, A.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>Demonstrate arrangement of furniture, fixtures, and equipment (FF&amp;E) and accessories for a project.</td>
<td>English: 11.5, 12.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Create a presentation display for a client’s approval.</td>
<td>Mathematics: G.13, G.14</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Present a design with products that satisfy a client’s needs, preferences, and goals.</td>
<td>English: 11.1, 12.1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Green Building Infusion Unit**
The Green Building Infusion Unit (GBIU) was designed to encourage teachers to infuse instruction on green building knowledge and skills into designated CTE courses. The infusion unit is not mandatory, and, as such, the tasks/competencies are marked as “optional” and are to be taught at the instructor’s discretion.

**Entrepreneurship Infusion Unit**

Entrepreneurship Infusion Units may be used to help students achieve additional, focused competencies and enhance the validated tasks/competencies related to identifying and starting a new business venture. Because the unit is a complement to certain designated courses and is not mandatory, all tasks/competencies are marked “optional.”
Appendix: Credentials, Course Sequences, and Career Cluster Information

Industry Credentials: Only apply to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- Interior Decorating and Design Assessment
- Interior Design Fundamentals Assessment
- Leadership Essentials Assessment
- National Career Readiness Certificate Assessment
- Workplace Readiness Skills for the Commonwealth Examination

Concentration sequences: A combination of this course and those below, equivalent to two 36-week courses, is a concentration sequence. Students wishing to complete a specialization may take additional courses based on their career pathways. A program completer is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program.

- Career, Community and Family Connections (8205/18 weeks)
- Career, Community and Family Connections (8282/36 weeks)
- Family Relations (8223/18 weeks)
- Family Relations (8225/36 weeks)
- GRADS (Graduation, Reality, and Dual-Role Skills): Family Focus (8277/18 weeks)
- GRADS (Graduation, Reality, and Dual-Role Skills): Family Focus (8278/36 weeks)
- GRADS (Graduation, Reality, and Dual-Role Skills): Work Focus (8213/36 weeks)
- Independent Living (8214/18 weeks)
- Independent Living (8219/36 weeks)
- Individual Development (8209/18 weeks)
- Individual Development (8210/36 weeks)
- Interior Design I (8295/36 weeks, 280 hours)
- Introduction to Interior Design (8254/18 weeks)
- Introduction to Interior Design (8255/36 weeks)
- Life Planning (8226/18 weeks)
- Life Planning (8227/36 weeks)

<table>
<thead>
<tr>
<th>Career Cluster: Arts, Audio/Video Technology and Communications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pathway</strong></td>
</tr>
<tr>
<td>Performing Arts</td>
</tr>
<tr>
<td>Visual Arts</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>