

Lesson One: Setting Career Goals

Duration: 50 minutes

Suggested Prerequisite: Career and College Readiness Module One

Objectives:

- Identify examples of short and long-term goals.
- Do preliminary research on a job and the education/skills required.
- Create three short and long-term goals that could help students attain a specific career choice.



Opening

Duration: 4 minutes

Format: Read Independently. Share with class.

Possible Prompt: "As you know, there are short-term and long-term goals for getting a job in the career you want. Let's practice identifying goals."

Handout: Identifying Long-term and Short-term Goals sheet to identify goals related to becoming an architect. (Answer sheet provided).

Individual:

- Read each goal.
- Place a ✓ in the long-term OR short-term column.
- Place an ✗ in the column if a goal is not needed to become an architect.

Class Share: Discuss the rationale - some may fit into two different categories.

New Learning

Duration: 12 minutes

Format: Read as a class. Discuss as a class.

Possible Prompt:

- “Deciding on the right career takes a lot of careful thought, research, and planning. Let’s see what is required to become an architect.”
- “Take a look at this U.S. government website, the Bureau of Labor Statistics, Occupational Outlook Handbook.” <https://www.bls.gov/ooh/>
- “Notice the various ways you can research an occupation. (occupation groups, alphabetical, etc.)”
- “Under Occupational Groups - architecture is the first category. You can also click on the A on the A-Z Index to end up on the same page.”
- “Let’s go with the Architecture and Engineer link - here are titles, descriptions, degree requirements, and median pay as of 2017.”

Click on Architect:

- “This page gives a quick summary. For more information, click on titles or use the tabs along the top. To learn what is required for this career, we will go to the tab: How to Become One.” (Open this page)
- “Notice the requirements: Education, Training, and Licenses or Certificates.”
- “These requirements are the long-term goals for getting a job as an architect.”

Point out: Some key requirements needed:

- Bachelor's degree in architecture
- Paid internship—generally three years
- Architect Registration Examination
- Require to be licensed

“At the bottom, Important Qualities are provided. Here is where you can build short-term goals.”

Example: Important Qualities for an Architect:

- Analytical skills
- Communication skills
- Creativity
- Organizational skills
- Technical skills
- Visualization skills

Class Discuss: (Select one of the qualities to discuss)

What short-term goal could a student work on today to build one of these skills?

The OOH can help you find career information on duties, education and training, pay, and outlook for hundreds of occupations.

OCCUPATIONAL GROUPS

- Architecture and Engineering
- Arts and Design
- Building and Grounds Cleaning
- Business and Financial
- Community and Social Service
- Computer and Information Technology
- Construction and Extraction
- Education, Training, and Library
- Entertainment and Sports
- Farming, Fishing, and Forestry
- Food Preparation and Serving
- Healthcare
- Installation, Maintenance, and Repair
- Legal
- Life, Physical, and Social Science
- Management
- Math
- Media and Communication
- Military

SELECT OCCUPATIONS BY

2017 Median Pay: Entry-Level Education: On-the-Job Training:

Number of New Jobs (Projected): Growth Rate (Projected): [GO](#)

FEATURED OCCUPATION

Materials Engineers

Materials engineers develop, process, and test materials used to create a wide range of products, from computer chips and aircraft wings to golf clubs and biomedical devices. They study the properties and structures of metals, ceramics, plastics, composites, nanomaterials (extremely small substances), and other substances in order to create new materials that meet certain mechanical, electrical, and chemical requirements.



[View profile](#)

A-Z INDEX

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

	Aerospace engineering and operations technicians operate and maintain equipment used in developing, testing, producing, and launching new aircraft and spacecraft. Increasingly, these workers are using computer-based modeling and simulation tools and processes in their work, as well as advanced automation and robotics.	Associate's degree	\$67,240
	Aerospace engineers design, primarily aircraft, spacecraft, satellites, and missiles. In addition, they create and test prototypes to make sure that they function according to design.	Bachelor's degree	\$113,030
	Agricultural engineers attempt to solve agricultural problems concerning power supplies, the efficiency of machines, the use of structures and facilities, pollution and environmental issues, and the storage and processing of agricultural products.	Bachelor's degree	\$74,700
	Architects plan and design houses, factories, office buildings, and other structures.	Bachelor's degree	\$78,470
	Biomedical engineers combine engineering processes with medical sciences to design and create equipment, devices, computer systems, and software used in healthcare.	Bachelor's degree	\$88,040
	Cartographers and photogrammetrists collect, measure, and interpret geographic information in order to create and update maps and charts for regional planning, education, emergency response, and other purposes.	Bachelor's degree	\$63,990

How to Become an Architect

There are typically three main steps to becoming a licensed architect: completing a bachelor's degree in architecture, gaining relevant experience through a paid internship, and passing the Architect Registration Examination.

Education

In all states, earning a bachelor's degree in architecture is typically the first step to becoming an architect. Most architects earn their degree through a 5-year Bachelor of Architecture degree program. Many earn a master's degree in architecture, which can take 1 to 5 additional years. The time required depends on the extent of the student's previous education and training in architecture.

A typical bachelor's degree program includes courses in architectural history and theory, building design with an emphasis on computer-aided design and drafting (CAD), structures, construction methods, professional practices, math, physical sciences, and liberal arts.

About two-thirds of states require that architects hold a degree in architecture from one of more than 120 schools of architecture accredited by the National Architectural Accreditation Board (NAAB). State licensing requirements can be found at the [National Council of Architectural Registration Boards \(NCARB\)](#).

Training

All state architectural registration boards require architecture graduates to complete a lengthy paid internship—generally lasting 3 years—before they may sit for the Architect Registration Examination. Most new graduates complete their training period by working at architectural firms through the [Architectural Experience Program \(AEP\)](#), a program run by NCARB that guides students through the internship process. Some states allow a portion of the training to occur in the offices of employers in related careers, such as engineers and general contractors. Architecture students who complete internships while still in school can count some of that time toward the 3-year training period.

Interns in architectural firms may help design part of a project. They may help prepare architectural documents and drawings, build models, and prepare construction drawings on CAD. Interns may also research building codes and write specifications for building materials, installation criteria, the quality of finishes, and other related details. Licensed architects take the documents that interns produce, make edits to them, finalize plans, and then sign and seal the documents.

Licenses, Certifications, and Registrations

All states and the District of Columbia require architects to be licensed. Licensing requirements typically include completing a degree program in architecture, gaining relevant experience through a paid internship, and passing the Architect Registration Examination.



Activity

Duration: 20 minutes

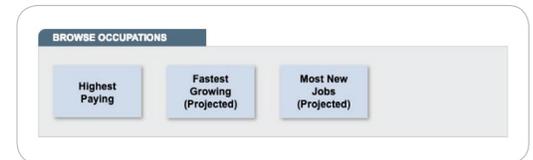
Format: Create in small groups or do as individuals.

Possible Prompt: "If you don't know what you want to be yet, you can use the section of the home page to explore: Highest Paying, Fastest Growing, Most New Jobs" (open webpage).

Handout: BLS Research Handout: Occupational Outlook Handbook

Assign in groups or individually: "You will research a job's key requirements to identify three long-term goals. Then you will create three short-term goals based on important qualities or skills listed."

(Teacher can assign students one of three categories or allow them to select.)



Demonstrate how to find the necessary information on the How To Become One page.

Directions

1. Go to www.bls.gov/ooh¹
2. Find an occupation of interest in the designated browsing category (Highest Paying, Fastest Growing, Most New Jobs).
3. Scan the summary information.
4. Go to: How to Become One.
5. Read the key requirements under Education, Training, Licenses/Certification to identify three long-term goals.
6. List three qualities or skills needed. Write short-term goals you could start now or in the near future.

Discussion

Duration: 10 minutes

Format: Discuss as a class or as groups

Share (if in groups): Each group shares their job, long term goals and short-term goals (as time permits).

Share (if as individual): Same as above but students share in small groups.

Class Discuss:

- How does a resource such as BLS help you build long-term goals?
- Why is it important to identify short-term goals from the qualities or skills listed in this career section?

Closing

Duration: 1 minute

Format: Formalize learning with the whole group

Possible Prompt: "Super job today! So, you see BLS is one of the most robust resources for researching a job you already know about or for discovering jobs you didn't know existed and might interest you."

Evaluation

Duration: 2 minutes

Format: Access Individually

Based on what you read or shared today...

- Three things I learned are...
- Two questions I still have are...
- One thing that stuck with me is...

Learners needing support:

Reading can be done in partners or groups to help learners with second language challenges.

Learners ready for extensions:

Students can review other tabs to create a more complete picture of the job, including a link to ONet (under more information.)

Notes for next time:

Identifying Long-term and Short-term Goals

Student who wants to become an architect

	Long-Term ✓	Short-Term ✓	Neither ✗
Work a summer construction job			
Get a bachelor's degree in architecture			
Become fluent in a foreign language			
Take Calculus or other higher math course			
Practice drawing/building models			
Apply to Cornell, Notre Dame, and Rice University			
Pass the Architect Registration Examination			
Join a debate team			
Talk to someone who is an architect			

Identifying Long-term and Short-term Goals (ANSWER SHEET)

Student who wants to become an architect

	Long-Term ✓	Short-Term ✓	Neither ✗
Work a summer construction job		✓	
Get a bachelor's degree in architecture	✓		
Become fluent in a foreign language			✗
Take Calculus or other higher math course		✓	
Practice drawing/building models		✓	
Apply to Cornell, Notre Dame, and Rice University	✓		
Pass the Architect Registration Examination	✓		
Join a debate team			✗
Talk to someone who is an architect		✓	

Name:

Date:

BLS Research Handout

Occupational Outlook Handbook

Web Instructions:

1. Go to www.bls.gov/ooh
2. Find an occupation of interest in the designated browsing category (Highest Paying, Fastest Growing, Most New Jobs).
3. Scan the page's summary information.
4. Go to the page: How to Become One.
5. Identify three key requirements or long-term goals.
6. Review the Important Qualities and create three short-term goals.

Fill in the blank with your chosen profession.

I want to become a(n):

Long-Term Goals

Use the Education, Licensing/Certification, Training section to identify three key requirements.

Example: Architect: Bachelor's degree in architecture

- 1.
- 2.
- 3.

Short-Term Goals

List three qualities or skills needed. Write short-term goals you can start now or in the near future.

Example: Architect: Analytical Skills - Take Calculus or Math Analysis course.

- 1.
- 2.
- 3.