Mission and Vision
The program aims at providing the students with a well-rounded knowledge and training related to core subjects in science and pharmacy, as well as with soft and transferable skills related to project management and leadership skills. Students will be introduced to the benefits of pursuing a career as a science or pharmacy candidate.

Target Audience
High school male and female students in grades 9 to 12

Program Description
The program is jointly run by College of Science and College of Pharmacy. During the morning sessions of the first week, students will delve into physics principles and their applications, know more about chemistry in everyday life, understand the basis of life from the molecule to the cell, and apprehend what nanotechnology has got to do with all these topics. Capitalizing on the knowledge gathered during the first week, pharmacy will take over for the second and the third week sessions and will cover a broad range of pharmacy-related topics. There will be a special emphasis on pharmacy as a career prospect and the various roles a pharmacist can hold within clinical, community and industrial settings. Joining the summer program will also provide an opportunity to virtually observe how a range of pharmaceutical products are manufactured and checked for quality. With regard to the afternoon sessions, students will appreciate workshops related to project management and business leadership delivered by professionals in the field. Last but not least, students will enjoy virtual tours of high-tech labs working on advanced research topics.

Dates & Timing
Date: 14th June – 2nd July 2020
Time: 9:00 AM - 3:00 PM Sunday to Thursday

Location
Virtual program

Cost: 2250 SR
### Weekly Themes and End Goals

#### Program Structure Overview

**Alfaisal University White Coats | College of Science | College of Pharmacy**

#### MORNING

**Week One**
- Physics is everywhere
- Chemistry for all
- The basis of Life: Cellular and Molecular
- What Nano got to do with it

**Week Two**
- The role of a pharmacist
- Drug origins
- How does the drug work in the body?
- Drug dosage forms

**Week Three**
- Pharmacists in hospital settings
- Pharmacists in community settings
- Pharmacists in regulatory settings
- Healthcare entrepreneurs
- Role of pharmacists in the COVID19-pandemic

#### AFTERNOON

**Project Management Workshop**

**Project Management Workshop**

**Business Leadership Workshop**

### End Goals
- Discover learning and training opportunities at the Colleges of Science and Pharmacy
- Acquire basic knowledge in science and pharmacy
- Provoke critical thinking and problem-solving skills
- Develop teamwork and communication skills
- Gain research experience and virtual hands-on training using various research tools

Explore pharmacy as a healthcare profession

Uncover the science involved in nanotechnology and drug formulations

Understand basic science and nanotechnology experiments, and perform a basic analysis of the collected data

Discover various professional roles a pharmacist can hold

Develop basic knowledge in research and project management

Develop communication skills and team work abilities

Prepare and deliver a presentation about the project of interest