



# FAQ

## GENERAL

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### **How is the Arduino Engineering Kit course structured?**

Arduino Engineering Kit course content is divided into six chapters and is designed to be followed sequentially from chapters 1 to 3, which should be used as a reference when needed. Chapters 4, 5 and 6 are projects. They can be done in any order but it is recommended to start with chapter 4.

### **Which languages does the online platform support?**

The Arduino Engineering online platform is currently available in English. More languages, including Spanish and German, will be added soon!

### **What engineering concepts are covered?**

The kit covers an introduction to:

- Mechatronics: DC motors, servos, encoders, motor drivers, PWM signals etc
- Model based design
- Control theory
- Image and signal processing
- Data visualization and analysis
- Applied physics and mathematics
- Text based programming with MATLAB
- Visual programming with Simulink.

### **Where is the registration code for my kit?**

You'll find your registration code inside the box.

### **How do I access the Arduino Engineering Kit course?**

You can access the course content [here](#). Please note that you need an Arduino account to access the course.

### **What are the differences between Arduino Engineering Kit Rev1 and Rev2?**

The main differences are that the Rev2 kit features:

- Optimized compact hardware design with the new professional Arduino Nano 33 IoT
- Improved battery management with the custom Nano Motor Carrier Board
- Improved box and kitting for better classroom management and cargo safety
- Enhanced robot performance with new Simulink models
- Reduced assembly time and improved overall performance with better mechanical structure designs
- Content is upgraded and available on a new online platform for better user experience
- Upgraded MATLAB and Simulink to 2020A version

### **I have an Arduino Engineering Kit Rev1. Can I update it to Rev2?**

Since the hardware is different in Rev2 it also has a different online platform with updated content. To get the new hardware and access to the updated online platform you need to purchase the Rev2. However, you can also choose to continue using your Rev1 and its online platform.

### **What operating system is required?**

Windows 7 or higher, Linux, and Mac OS (including catalina).

### **Can I get replacement parts?**

Yes, we are adding replacement parts to the Arduino Store.

### **Is this kit suitable for distance learning?**

Yes, the new kit allows for individual use and on site use. Students can have access to the MathWorks tools either via their campus license or the free trial version included in the kit. The online educational platform and content can be accessed from wherever the students are as long as they have internet connection. The kit also includes all the hardware the students will need for the lessons and projects.



## CLASSROOM SETUP

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### **What are the minimum requirements for using the Arduino Engineering Kit in the classroom?**

The kit comes with all the required components you need to get started. The only other things you need are a computer with a MATLAB-compatible operating system, a white board for the Drawing Robot project, a small screwdriver and a stable WiFi connection.

### **Is there an evaluation system for students on the online learning platform?**

The Arduino Engineering Kit doesn't have its own evaluation system. A professor can evaluate their class in the way they consider most appropriate.

### **How many students can use the kit?**

The kit includes all the components required to assemble one project at a time. The projects can be done individually or in teams with no more than three students. For best learning experience we recommend students to work in pairs on one project.

## ACCESS TO THE ONLINE PLATFORM

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### **How many professors can access the platform?**

Each Arduino Engineering Kit allows one professor to access the online platform.

### **How can students access the platform?**

The Arduino Engineering Kit allows the professor to invite students to access the online platform and manage the whole class with one account.

### **What does professor access look like? What is the role of a professor versus the students?**

A professor can provide access to students to view the content in the online learning platform. A student cannot provide access to others. As a professor, you're able to view the Dashboard tab next to the course content tab. This is where you can invite students to view the content.



## EDUCATOR & STUDENT ENROLLMENT

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### How are students enrolled in the platform?

The educator can enrol students to the Arduino Engineering Kit platform by sending an email invitation. After accepting the invitation, students will need an Arduino account to access the platform. The emails used to create the Arduino account and for the enrolment invitation need to match.

### How many students can I enroll with one kit?

With one kit you can add and remove up to 60 students at the same time.

### When can I enroll students in the platform?

You can enroll students at any time.

### Can I remove a professor's account from the platform?

No, you cannot delete a professor's account. You can only remove students from the platform.

### I forgot my Arduino account password, how can I recover it?

You can reset your password [here](#) by submitting your username or email address.

## MATLAB AND SIMULINK LICENSE OPTIONS


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### Are MATLAB and Simulink included or do I have to pay extra?

One Arduino Engineering Kit includes a one-year free trial license of MATLAB, Simulink and other add-on products for **one individual**. This license is for educational use only, not for government, research, commercial, or other organizational use.

### What if the included license is not sufficient? Suppose several individuals who will be sharing a kit need access for longer than one year. What should we do to get more licenses?

MathWorks has various options for supplementing the included license. They will assist you in determining what is appropriate for your situation. Please visit



[https://www.mathworks.com/company/aboutus/contact\\_us/arduino\\_engineering\\_kit.html](https://www.mathworks.com/company/aboutus/contact_us/arduino_engineering_kit.html) to learn more.

### **If I have an existing MATLAB license, can I use that?**

Yes, but you must use R2020a or later and have access to the following products:

- MATLAB
- Simulink
- Control System Toolbox™
- Curve Fitting Toolbox™
- DSP System Toolbox™
- Image Processing Toolbox™
- Instrument Control Toolbox™
- Optimization Toolbox™
- Signal Processing Toolbox™
- Symbolic Math Toolbox™
- Stateflow®
- Simscape™,
- and Simscape Multibody™.

If your school has a [Campus-Wide License](#) or [MATLAB Primary and Secondary School Suite](#) all students and faculty already have unlimited access to MATLAB and Simulink products including the add-ons needed for the Arduino Engineering Kit projects.

If you don't have access to a school license, [MATLAB and Simulink Student Suite](#) includes all the products used in the kit except Stateflow, which can be purchased for a small additional charge (USD 10.00). If you're not a student, [MATLAB Home](#) can be used.

### **My MathWorks and Simulink license has expired, how do I renew it?**

The Arduino Engineering Kit includes a one-year individual license for MATLAB and Simulink for free. If you wish to continue using MATLAB/Simulink after the trial period, you can purchase a new license by following the link below:

<https://se.mathworks.com/store>

### **How can a professor extend their MathWorks license?**

A professor or institution can purchase a new MathWorks license [from MathWorks](#).

### **Can I transfer the code for accessing the learning material and the MATLAB/SIMULINK trial to another person?**

The code for the MathWorks trial license and access to the online platform are **NOT** transferable.

