



SOLIDWORKS Feature Patterns and Sweeps

This course is part of [SOLIDWORKS 3D CAD for Education Specialization](#)



Instructor: [SOLIDWORKS](#)

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3 modules

Gain insight into a topic and learn the fundamentals.

4.8 ★

(12 reviews)

Beginner level

Recommended experience ⓘ

8 hours to complete

Flexible schedule

Learn at your own pace

Skills you'll gain

Computer-Aided Design

Technical Design

Mechanical Engineering

3D Modeling

Prototyping

Details to know



Shareable certificate

Add to your LinkedIn profile



Assessments

2 assignments



Taught in English

See how employees at top companies are mastering in-demand skills





Build your subject-matter expertise

This course is part of the [SOLIDWORKS 3D CAD for Education Specialization](#). When you enroll in this course, you'll also be enrolled in this Specialization.

- Learn new concepts from industry experts
- Gain a foundational understanding of a subject or tool
- Develop job-relevant skills with hands-on projects
- Earn a shareable career certificate

There are 3 modules in this course

Welcome to SOLIDWORKS Feature Patterns and Sweeps, the fourth course in the SOLIDWORKS 3D CAD for Education Specialization. Prior knowledge from the earlier courses is strongly recommended.

This course teaches powerful modeling tools for creating repetitive or complex geometry efficiently.

Upon completion of this learning module, you will be able to:

- Create mirror feature
- Apply linear pattern
- Apply circular pattern
- Create sweep / sweep cut

This course is perfect for learners looking for advanced design scenarios and time-saving model creation.

Software Prerequisites:
SOLIDWORKS Desktop EDU

Access powerful capabilities for Engineering with SOLIDWORKS Desktop at a low price, \$60 (excluding taxes), follow this link : <https://go.3ds.com/CSW1>

[Read less](#)




Welcome to SOLIDWORKS Feature Patterns and Sweeps Course

Module 1 • 20 minutes to complete

[Module details](#) ^

In this module, you'll get an overview of the course structure and what to expect as you progress.

What's included

 1 video  1 reading  1 discussion prompt

Hide info about module content ^

 1 video

SOLIDWORKS Feature Patterns and Sweeps Course Introduction • 0 minutes

 1 reading • Total 10 minutes

Welcome to SOLIDWORKS Feature Patterns and Sweeps Course! • 10 minutes

 1 discussion prompt • Total 10 minutes

Share your thoughts • 10 minutes



Practice Feature Patterning (Level 7)

[Module details](#) ^


Module 2 • 4 hours to complete

This module focuses on solving CAD problems in SOLIDWORKS by creating 3D objects from 2D drawings, using the mirror, linear, and circular pattern tools.


What's included

 1 assignment  5 plugins

Hide info about module content ^

 1 assignment • Total 10 minutes

Quiz: Practice Feature Patterning • 10 minutes

 5 plugins • Total 255 minutes

Introduction to Practice Feature Patterning (Level 7) • 15 minutes

Create a Chess Rook (Level 7.1) • 60 minutes

Create a Rubber Drying Tray (level 7.2) • 60 minutes

Create a Mini Cup Cake Tray (level 7.3) • 60 minutes

Create a Bearing Retainer (Level 7.4) • 60 minutes



Practice Sweep Boss/Cut (Level 8)

[Module details](#) ^


Module 3 • 3 hours to complete

This module focuses on solving CAD problems in SOLIDWORKS by creating 3D objects from 2D drawings using the sweep boss/cut functionality.


What's included

 1 assignment  5 plugins

Hide info about module content ^

 1 assignment • Total 10 minutes

Quiz: Practice Sweep Boss/Cut • 10 minutes

 5 plugins • Total 195 minutes

Introduction to Practice Sweep Boss/Cut (Level 8) • 15 minutes

Create an Alan Wrench (Level 8.1) • 30 minutes

Create a Simple Spring Clip (Level 8.2) • 45 minutes

Create a Kettle Bell (Level 8.3) • 45 minutes

Create a Spring Clip (level 8.4) • 60 minutes



Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV. Share it on social media and in your performance review.

Instructor



SOLIDWORKS

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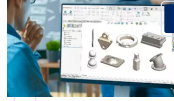
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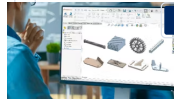
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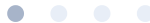
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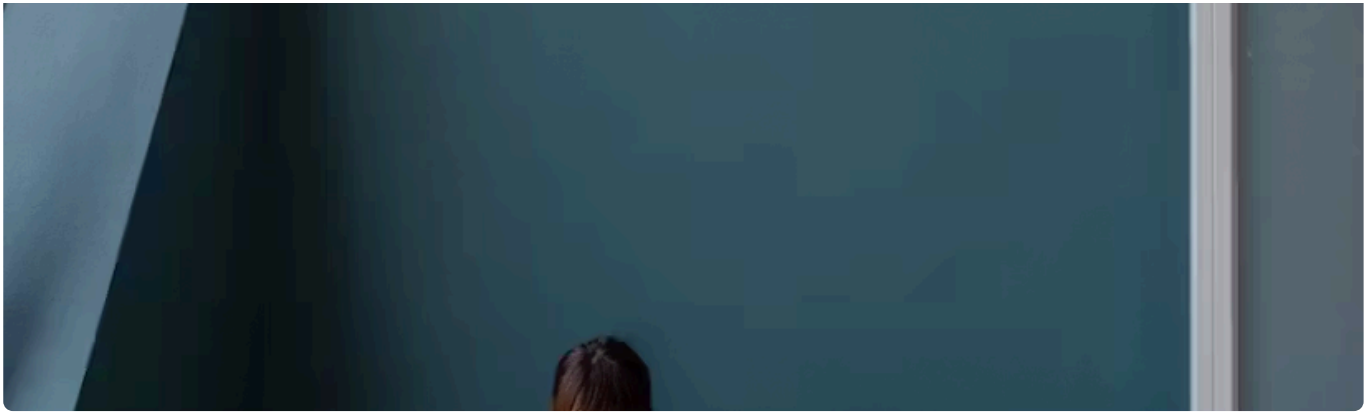
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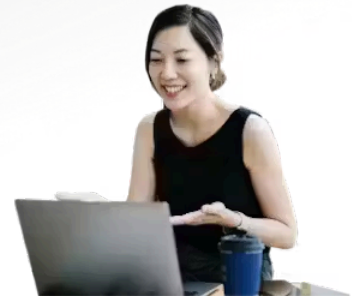
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Frequently asked questions

^ When will I have access to the lectures and assignments?

To access the course materials, assignments and to earn a Certificate, you will need to purchase the Certificate experience when you enroll in a course. You can try a Free Trial instead, or apply for Financial Aid. The course may offer 'Full Course, No Certificate' instead. This option lets you see all course materials, submit required assessments, and get a final grade. This also means that you will not be able to purchase a Certificate experience.

^ What will I get if I subscribe to this Specialization?

When you enroll in the course, you get access to all of the courses in the Specialization, and you earn a certificate when you complete the work. Your electronic Certificate will be added to your Accomplishments page - from there, you can print your Certificate or add it to your LinkedIn profile.

^ Is financial aid available?

Yes. In select learning programs, you can apply for financial aid or a scholarship if you can't afford the enrollment fee. If fin aid or scholarship is available for your learning program selection, you'll find a link to apply on the description page.

More questions



[Visit the learner help center](#)

Financial aid available, [learn more](#)

Skills

Artificial Intelligence (AI)
Cybersecurity
Data Analytics
Digital Marketing
English Speaking
Generative AI (GenAI)
Microsoft Excel
Microsoft Power BI
Project Management
Python

Certificates & Programs

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Google IT Support Certificate
Google Project Management Certificate
Google UX Design Certificate
IBM Data Analyst Certificate
IBM Data Science Certificate
Machine Learning Certificate
Microsoft Power BI Data Analyst Certificate
UI / UX Design Certificate

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