# SOLIDWORKS Advanced Part Modeling

## Prerequisites
- SolidWorks Essentials or equivalent experience.

<table>
<thead>
<tr>
<th>Length</th>
<th>Description</th>
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<tbody>
<tr>
<td>3 Days</td>
<td>SolidWorks Advanced Part Modeling teaches students how to use multibody solids, sweeping and lofting features and the more advanced shaping capabilities of SolidWorks</td>
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## Multibody Solids
- Multibody Solids and Solid Bodies
- Local Operations
- Extrude From
- Patterning
- Combined, Common Bodies
- Move/Copy Bodies
- Tool Body
- Insert Part, Insert into New Part
- Mate Reference
- Indent Feature
- Feature Scope
- Using Cut to Create Multibodies
- Splitting a Part into Multibodies
- Using Split Part with Legacy Data
- Saving Solid Bodies as Parts & Assemblies

## Sweeps
- Sweeping and Lofting: What's the Difference
- Sweep Options
- Orientation and Twist Control, Align with End Faces
- Selecting Edges, Select Loop, Selection Manager
- Split Lines, Fit Spline
- Curves: Helix, Spiral, Projected, Composite, Intersection Curve, and through a set of points
- Sweeping Along Model Edges
- Sweeping Along a 3D Path
- Sweeping a Tool Body
- Analyzing Geometry, Display Curvature, Curvature Combs, Zebra Stripes
- Performance Considerations
- Modeling Threads

## Loft & Splines
- Basic Lofting, Advanced Lofting
- Sketch Picture, Layout Sketches
- Using Derived & Copied Sketches
- Spline Sketching
- Split Entities
- Boundary Feature
- Centerline Lofting
- Cleaning Up a Model
- Delete Face Deviation Analysis

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