ptc education

Creo® 11.0 Education Editions Comparison Chart

FOR UNIVERSITY CUSTOMERS ONLY

Student Edition: One-year license available to all students. Download for free here.

Student Premium Edition: One-year license for home use. Available in bundles via our partners or individually via the PTC e-store.

University Edition: One-year campus-wide license of all Creo applications including Creo Elements/Direct. For teaching and non-funded research only.

Creo Product Features	Student Edition (Free Individual License)	Student Premium Edition (Paid Individual License)	University Edition (Paid Campus License)
Creo Parametric™ – The essential integrated 3D CAD/CAM/CAE solution offering the most robust product design toolset with the ability to create parts, assemblies and drawings that can be directly published into AR	Yes	Yes	Yes
Multibody Design - Powerful new workflows will empower generative design, real-time simulation, additive manufacturing and core product design	Yes	Yes	Yes
Creo Simulation Live™ - The Creo Simulation Live is an integration of ANSYS Discovery technology into Creo, enabling near instantaneous static structural, thermal and modal (vibration) simulation	No	Yes	Yes
Creo Direct™ – Easy-to-use flexible solution that gives users the ability to create and edit 3D CAD data using a direct modeling approach.	Yes	Yes	Yes
Creo Simulate™ – Enables 3D virtual prototyping to test a range of structural and thermal properties of a design early in the detailed design process.	Lite	Extension	Elite

https://www.ptc.com/education

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Creo Freestyle – Capabilities to speed the creation high-quality freeform surface geometry	Yes	Yes	Yes
Creo Layout™ – Create 2D conceptual layouts and reuse the 2D layout to build 3D models.	Yes	Yes	Yes
Creo Schematics™ – Create 2D schematic designs quickly and easily, enabling complete system documentation. Includes capabilities for wiring, piping, and hydraulic schematics.	No	Yes	Yes
Creo Illustrate™ – Easily convey complex products and procedures graphically with 3D, interactive illustrations and animations. Create visual representations of service parts and kits to increase accuracy.	Basic	Standard	Professional
Creo MCAD View™ – Quickly examine and distribute mechanical CAD models to gain valuable engineering design insight.	No	Yes	Yes
Additive Manufacturing Extension (AMX) - Create parametrically controlled 2.5D and 3D lattice structures for 3D printing.	Basic	Basic	Advanced
Generative Topology Optimization - Create the best possible designs based on engineering and manufacturing requirements.	No	No	Advanced
Flow Analysis (CFD) - An easy to use computational fluid dynamics simulation tool built specifically for engineers and designers.	No	No	Premium
Creo Render Studio - Real-time rendering of scenes and appearances such as lights, High Dynamic Range Image (HDRI) environments, and textures.	No	Yes	Yes

ptc education

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Flexible Modeling – Fast, flexible 3D direct editing in a parametric environment. Allows users to easily select and edit a range of geometry and features without losing any design intent.	Yes.	Yes	Yes
Advanced Framework™ – Faster creation of bolted or welded metal structures with powerful dedicated features, dynamic assistant, and libraries of components and profiles.	Lite	Yes	Yes
Advanced Assembly – Manage components and sub-assemblies for top-down design.	Yes	Yes	Yes
Mechanism Dynamics – Simulate and validate the behavior of a mechanism, realistically taking into account the mass of its components, forces, inertia, friction, springs, joint reactions.	Yes	Yes	Yes
Behavioral Modeling® – Measure how the product design will react to various real-world elements, such as environmental conditions.	Lite	Yes	Yes
Manikin – Insert, customize, and manipulate 3D human models in a design.	No	Yes	Yes
Manikin Analysis – Insert accurate human models into your 3D CAD product models and analyze human-product and visual field interactions.	No	Yes	Yes
ECAD-MCAD Collaboration – Provides the necessary tools for a collaborative design between Mechanic CAD (MCAD) and Electronic CAD (ECAD), in real time.	No	No	Yes
Legacy Data Migration (LMX) – Enable Creo Parametric users to associate 2D drawings to 3D models imported from a 3rd party CAD system. Helps automate the process of mapping and linking the 2D drawings to the 3D model.	Yes	Yes	Yes

https://www.ptc.com/education

ptc education

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Spark Analysis – Detect and document the risk of electrical arcing in an electromechanical analysis.	No	Yes	Yes
Computer-Aided Verification – Digitally inspect machined parts and assemblies for quality assurance.	No	Yes	Yes
NC Sheetmetal™ – Create, verify and process tool paths for turret punch presses and contouring laser or flame machines.	No	Yes	Yes
Plastic Advisor™ – Simulate plastic-filling process for injection-molded parts.	No	Yes	Yes
Expert Moldbase™ – Simple, process-driven workflow creates automated moldbase design and detailing.	No	Yes	Yes
Tool Design Extension (TDO) – Automated parting surface creation and automated splitting make it easy to create complex tooling quickly.	No	Yes	Yes
Complete Mold Design – Core, cavity and moldbase design capabilities.	No	No	Yes
Progressive Die – Enables the rapid and automated creation of cutting tools and dynamic libraries.	No	Yes	Yes
Creo Sketch™ – The fastest and easiest way for students to contribute ideas graphically, capture and share 2D designs, and directly leverage the data in other Creo apps.	Yes	Yes	Yes
Creo Design Reuse & Automation - Automatically create part variants using design rules and family tables functionality	No	Yes	Yes

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Creo Product Insight - Design for connectivity to capture relevant data streams and return real-world data from physical objects	No	No	**Yes**
Human Factors Extension - Validate and optimize products for human interaction, usability and safety	No	Yes	Yes + Analysis
Augmented Reality - AR Setup, Publishing, Distribution and Viewing via Vuforia View	Creo AR – Basic	AR Design Share	AR Design Share
Creo Unite - Capabilities to support multi-CAD Collaboration and Consolidation. Directly import CATIA V4/V5, SolidWorks, Solid Edge and Inventor formats. Directly open CATIA V4/V5, SolidWorks and Siemens NX data	Yes	Yes	Yes
Creo Import Data Doctor (IDD) - Automate the "repair" and "clean-up" of imported geometry. Tools to Repair, Modify and Featurize imported geometry	No	Yes	Yes
Creo Surfacing - Define parameter and constraint driven entities to create complex free-form and analytical surfaces	No	Yes	Yes
Creo Weld Design - Accurately define weld geometry and the associated weld fabrication documentation	No	Yes	Yes
Creo Plastics Design - Specialized features to speed the creation and analysis of plastic and "thin walled" parts	No	Yes	Yes
Creo 2D Detailing & Documentation - Specialize capabilities to manage component display and system performance	No	Yes	Yes

https://www.ptc.com/education

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Creo 3D Annotations (MBD) - Define a single source of truth for design, manufacturing and process information	Yes	Yes	Yes
Manufacturing Extension - The manufacturing solution is selected based on machine tool type (i.e., mill, turn, wire EDM), the complexity of geometry and the complexity of toolpath programming	No	Production Package	Complete Package
Creo GD&T Advisor - Simplify GD&T creation and improve MBD compliance with latest standards (ASME & ISO)	Basic	Basic	Advanced
Creo Interactive Surface Design (ISDX) - Combine the power of parametric modeling and flexibility of freeform surfacing	No	Yes	Yes
Creo Reverse Engineering Extension (REX) - Reverse engineer 3D CAD models from prototype scan data	No	No	Yes
Creo Design Exploration Extension (DEX) -Rapidly create and explore concepts and modeling alternatives	No	Yes	Yes
Creo Piping & Cabling Extension (PCX) - Create and optimize routings for cost, manufacturability and service	No	Yes	Yes
Creo Harness Manufacturing Extension (HMX) - Simplify and automate the creation of harness manufacturing documentation	No	Standard	Advanced
Creo Clearance & Creepage Analysis Extension (CCX) - Analyze and optimize designs for electrical product safety	No	Yes	Yes

https://www.ptc.com/education

ptc education

Creo Product Features	Student Edition	Student Premium Edition	University Plus Edition
Creo Behavioral Modelling Extension (BMX) - Rapidly optimize geometry to solve for design goals and engineering criteria	Yes	Yes	Yes
Creo Mechanism Dynamics Option (MDO) - Analyze and optimize the dynamic performance of mechanism designs	No	Yes	Yes
Creo Intelligent Fastener Extension (IFX) - Capabilities to automate fastener geometry creation and hardware assembly	No	Yes	Yes

https://www.ptc.com/education