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use of calculus are found
in mechanical
engineering, such as
computing the surface
area of complex objects
to determine frictional
forces, designing a
pump according to flow

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rate and head, and calculating the power provided by a battery system.

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Calculus is a high-level math required for mechanical engineering technology, but it also lays the ground work for more advanced math courses. Once you have

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calculus is involved in
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The majority of
mechanical engineering
is applying calculus and
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the problem is to
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~~How Is Math Used in~~

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mathematics cannot be
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chemistry, mechanics,
electricity, electronics,
automation, and other
disciplines. It
emphasizes
interdisciplinary

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Consider the formula: $\text{Speed} = \frac{\text{Distance}}{\text{Time}}$. for an object moving at

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constant speed. The speed of a car, as measured by the speedometer, is the derivative of the car's displacement as a function of time.

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and co-ops to prepare students for work in industry. Theory is often another main focus, in order to prepare students for graduate-level work. Math Required: College Algebra, Geometry, Trigonometry, Calculus I and II, Linear Algebra, Differential Equations, Statistics

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analytical and problem-
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including calculus, and advanced mathematical concepts including differential equations, partial differential equations, linear algebra, abstract algebra, and differential geometry, among others.

~~Mechanical engineering~~
~~—Wikipedia~~

Math and Computer

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Skills . Mechanical engineers need to be comfortable using math to solve problems. The math skills required in mechanical engineering include calculus and statistics. They must be adept at applying these skills to analyze problems and design solutions.

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