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essentially the application  
of chemical engineering  
principles to optimise the  
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control of chemical  
processes. Since this  
requires equipment design  
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Chemical engineering is a branch of engineering that uses principles of chemistry, physics, mathematics, biology, and economics to efficiently use, produce, design, transport and transform energy and materials. The work of chemical engineers can range from the utilization of nanotechnology and nanomaterials in the laboratory to large-scale industrial processes that convert chemicals, raw materials, living cells, microorganisms, and energy into useful forms and products.

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1 CHEMICAL REACTIONS  $r_i = -r_A = r_B = r_C$   
(4)  $r_i = -r_A = r_B = r_C$   
=  $r_C$  (5) Remember that the stoichiometric coefficients for reactants are negative, while those of products are positive. For systems of multiple chemical reactions the rates can be added to obtain the generation of component  $i$  for the whole network of

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reactions. As an example, take the oxidation of

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Each year you need to complete 120 credits. In the first year, you are introduced to basic engineering principles and design and fundamentals of chemical engineering. The second year focuses on core unit operations such as fluid flow, thermodynamics, chemical reactions, separation processes, process design and simulation and control.

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