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in phenomenon and  
function and  
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Biomaterials science  
encompasses elements  
of medicine, biology,  
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engineering, and  
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derived either from nature or synthesized in a laboratory using a variety of chemical approaches using metallic components, polymers, bioceramics, or composite materials.

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Thus modern materials engineering involves exploitation of relationships among the four basic elements of the field—structure and composition, properties, synthesis and processing, and performance (i.e., the elements shown schematically in Figure 1.10), basic science, and industrial and broader societal needs.

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described in terms of  
the functional roles of  
materials. Such a  
breakdown has the



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Engineering takes an  
integrated approach to  
the sequence of topics  
- one specific  
structure,  
characteristic, or  
property type is  
covered in turn for all  
three basic material

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ceramics, and  
polymeric materials.

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