

| | <i>Juniors of SMSE@SJTU</i> | | | | |
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| | <i>School of Materials Science and Engineering</i> | | | | |
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| | <p style="text-align: center;">P M</p> <p>curriculum for undergraduates in the school of materials science and engineering. According to the characteristic of metal, ceramics and polymer matrix, based on the cases in practical applications, this course is aimed to convey the essential ideas of composite materials to students, namely the properties of composite materials depend not only on the constituents of matrix and reinforcements, but also the shape, size and architecture of reinforcements and the bonding character between matrix and reinforcements. This course focuses on the typical architecture/interface in composites, emphasizing the influences of size, interface, microstructure and architecture on the properties, and also the advanced methods to evaluate and characterize the structure and properties, with the aim to develop insights on the</p> | | | | |

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| | relationship between constituent and microstructure and properties of composites, and help students to establish the concept of designing composites in the views of material properties. | | | |
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