

Recommended Prerequisite Course for Institutes of Multimedia Engineering

Course	Recommended Prerequisite Course
Computer Graphics	Programming Design, Linear Algebra, Calculus
Image Processing	Programming Design, Linear Algebra, Probability
Computer Vision	Programming Design, Linear Algebra, Calculus
Video Compression	Signals and Systems, Probability, Linear Algebra
Pattern Recognition	Linear Algebra, Probability, Matlab Programming
Neural Networks	Linear Algebra, Probability, Matlab Programming
Computer Animation and Special Effects	Programming Design, Calculus, Linear Algebra, Numerical Methods
Clustering Methods	N/A
Image-based Modeling and Rendering	Programming Design, Linear Algebra, Calculus
Digital Gaming and Artificial Intelligence	N/A
Digital Signal Processing	Signals and Systems
Non-Photorealistic Rendering	Computer Graphics
3D Game Programming	Programming Design, Linear Algebra
Texture Synthesis	N/A
Multimedia Communications	Introduction to Computer Networks, Introduction to Computers
Human-Computer Interaction	Programming Design
Multimedia Information System	Image Processing, Pattern Recognition
Biomedical Signal Processing	Signals and Systems, Linear Algebra, Probability, Differential Equations
Digital video broadcasting and streaming	N/A