

60-550. 3D Animation and Data Visualization

Introduction to visualization methods, especially in the context of 3D modeling and 3D animation; 3D geometric modeling, 3D computer animation; forward/inverse kinematics and rigid body dynamic techniques for animation. Students will learn interactive modeling/animation tools and their use to produce motion for animations.

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<p>Learning Outcomes</p> <p><i>This is a sentence completion exercise.</i></p> <p><u>At the end of the course, the successful student will know and be able to:</u></p>	<p>Characteristics of a University of Windsor Graduate</p> <p><u>A U of Windsor graduate will have the ability to demonstrate:</u></p>
<ul style="list-style-type: none"> • Demonstrate competency in 3D visualization and modeling techniques of organic/non organic objects; animation techniques such as key framing, tools to produce animations. • Practice learned techniques in technical and/or entertainment environments. 	<p>A. the acquisition, application and integration of knowledge</p>
<ul style="list-style-type: none"> • Define the required characteristics for visualizing and animating entities. 	<p>B. research skills, including the ability to define problems and access, retrieve and evaluate information (information literacy)</p>
<ul style="list-style-type: none"> • Combine techniques learned [in A] for creation of visualizations for given applications. 	<p>C. critical thinking and problem-solving skills</p>
	<p>D. literacy and numeracy skills</p>
<ul style="list-style-type: none"> • Appraise their own creative products and make proper choices when using material created by others. 	<p>E. responsible behaviour to self, others and society</p>
	<p>F. interpersonal and communications skills</p>
<ul style="list-style-type: none"> • Identify a set of problems for the particular environment, formulate their strategy to develop the required product, report their findings to others. 	<p>G. teamwork, and personal and group leadership skills</p>
<ul style="list-style-type: none"> • Create 3D visualizations. 	<p>H. creativity and aesthetic appreciation</p>

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<p>I.</p>	<p>I. the ability and desire for continuous learning</p>