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This half-semester course introduces computational thinking through applications of data science, artificial intelligence, and mathematical models using the Julia programming language.

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Computational Science and Modeling

Introduction to Competition 111 Modeling Competition 112 Exercises 115 Projects 116 Answers to QuickReview Questions 117 References 117 Module4.2 Predator-Prey Models 118 Download 118 Introduction 118 Lotka-Volterra Model 119 Particular Situations 121 Exercises 125 Projects 125 AnswerstoQuickReviewQuestions 129 References 130 Module4 ...

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This subject provides an introduction to modeling and simulation, covering continuum methods, atomistic and molecular simulation, and quantum mechanics. Hands-on training is provided in the fundamentals and applications of these methods to key engineering problems.

Introduction to Modeling and Simulation | Materials ...

Course Description CS-151L - An introduction to Computational Science and Modeling (also known as Computer Science for All) - is a dual-credit computational science course open to high school as well as college students.

UNM CS-151L: CS4All - Department of Computer Science

Apply some subset of discipline-focused or methodology-focused topics in computational and data science to solve problems in the student's primary discipline. The Graduate Certificate in Computational Modeling consists of at least three courses comprising a minimum of 9 credit hours, taken from the two categories listed below.

Graduate Certificate in Computational Modeling ...

Graduate-level introduction to computational concepts, principles, and modeling approaches in social sciences, emphasizing simulations and elements of complexity theory as they apply to social phenomena. Survey includes systems dynamics, cellular automata, and agent-based models. Offered by Computational & Data Sciences. May not be repeated for credit.

Computational Social Science (CSS) < George Mason University

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Computational Science

An introduction to classical and quantum simulation methods as applied to chemistry-related problems and computational chemistry software packages. Part I: introductory material, potential energy surfaces, vibrational and electronic properties of molecules, and capabilities/limitations of computational chemistry.

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