

Course Level Learning Outcomes

CSC133

Students will analyze the interaction between hardware and software.

Students will use the theory of algorithms and computation to solve problems..

Students will use information management as a tool to support decision making in business environments.

CSC143

Students will be able to write correct and robust software.

Students will analyze the interaction between hardware and software.

Students will be able to apply their technical knowledge to solve problems.

Students will collaborate effectively in teams.

CSC153

Students will be able to write correct and robust software.

Students will analyze the interaction between hardware and software.

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

CSC181

Students will be able to use basic features of Excel.

Students will be able to use specific functions that may be useful for their future in areas of business, accounting, and science.

CSC191

Students will have a basic understanding of databases.

Students will learn to use data mining software on data.

CSC254

Students will be able to write correct and robust software.

Students will use the theory of algorithms and computation to solve problems.

Students will analyze the interaction between hardware and software.

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

CSC314

Students will analyze the interaction between hardware and software.
Students will collaborate effectively in teams.

CSC324

Students will be able to write correct and robust software.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

CSC354

Students will be able to write correct and robust software.
Students will use the theory of algorithms and computation to solve problems.
Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

CSC374

Students will analyze the interaction between hardware and software.

CSC394

Students will be able to write correct and robust software.
Students will use the theory of algorithms and computation to solve problems.
Students will analyze the interaction between hardware and software.

CSC412

Students will be able to apply their technical knowledge to solve problems.

CSC422

Students will use the theory of algorithms and computation to solve problems.
Students will analyze the interaction between hardware and software.

CSC454

Students will analyze the interaction between hardware and software.
Students will collaborate effectively in teams.

CSC481

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.

CSC491

Students will achieve the learning objectives set by the instructor. They depend on the material selected for the class.

CSC493

Students will be able to write correct and robust software.

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will analyze the interaction between hardware and software.

Students will collaborate effectively in teams.

CSC496

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

CSC497

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

CSC498

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

CSC499

Students will be able to apply their technical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

ISS242

Students will be able to write correct and robust software.

Students will be able to apply their technical knowledge to solve problems.

Students will use information management as a tool to support decision making in business environments.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

ISS324

Students will be able to write correct and robust software.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

ISS414

Students will be able to apply their technical knowledge to solve problems.

Students will analyze the interaction between hardware and software.

Students will use information management as a tool to support decision making in business environments.

ISS424

Students will be able to write correct and robust software.
Students will be able to apply their technical knowledge to solve problems.
Students will analyze the interaction between hardware and software.
Students will collaborate effectively in teams.

ISS472

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

ISS481

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.

ISS496

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

ISS497

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

ISS498

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.

ISS499

Students will be able to apply their technical knowledge to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.

MTH099

Students will be able to solve basic polynomial equations.

MTH113

Students will be able to solve complicated polynomial equations.
Students will be able to use graphing to solve equations.

MTH121

Students will be able to develop mathematical models for simple problems.
Students will be able to solve these problems using calculus.

MTH123

Students will develop an ability to graph functions including polynomial and trigonometric functions.
Students will develop an ability to solve functions including polynomial and trigonometric functions.

MTH131

Students will be able to use technology to solve problems.
Students will master the fundamentals of using a computer algebra system.
Students will solve calculus problems using a computer algebra system.

MTH133

Students will develop an ability to graph functions including polynomial and trigonometric functions.
Students will develop an ability to solve functions including polynomial and trigonometric functions.

MTH144

GE Learning Outcome 1A Students will demonstrate effective written and oral communication skills, both as individuals and in groups.

Students will be able to formulate a mathematical model from a verbal description of a problem.

GE Learning Outcome 1B Students will use quantitative analysis, qualitative analysis, and logic skills to address questions and solve problems.

Students will be able to solve non-routine problems using logic and quantitative techniques.

Students will be able to construct solutions to problems using computational techniques.

MTH164

Students will be able to demonstrate facility with analytical concepts.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to use technology to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

GE Learning Outcome 1A Students will demonstrate effective written and oral communication skills, both as individuals and in groups.

Students will be able to formulate a mathematical model from a verbal description of a problem.

GE Learning Outcome 1B Students will use quantitative analysis, qualitative analysis, and logic skills to address questions and solve problems.

Students will be able to solve non-routine problems using logic and quantitative techniques.

Students will be able to construct solutions to problems using computational techniques.

MTH174

Students will be able to demonstrate facility with analytical concepts.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to use technology to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH203

Students will be able to apply their technical knowledge to solve problems.
Students will be able to compute measures of central tendency for data.
Students will be able to compute measures of dispersion for data.
Students will be able to use statistical methods to test hypotheses.

MTH213

Students will be able to demonstrate a facility with operations on the integers.
Students will be able to demonstrate a facility with operations on the rational numbers.
Students will be able to apply concepts from number theory to solve problems.

MTH223

Students will be able to construct geometric figures using a compass and straight edge.
Students will be able to compute area and volume.
Students will be able to distinguish between the appropriate uses of probability and statistics to solve problems.

MTH233

Students will be able to apply their mathematical knowledge to solve problems.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH242

Students will be able to write proofs.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH274

Students will be able to demonstrate facility with analytical concepts.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to apply their mathematical knowledge to solve problems.
Students will be able to use technology to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH303

GE Learning Outcome 1A Students will demonstrate effective written and oral communication skills, both as individuals and in groups.

Students will be able to formulate a mathematical model from a verbal description of a problem.

GE Learning Outcome 1B Students will use quantitative analysis, qualitative analysis, and logic skills to address questions and solve problems.

Students will be able to solve non-routine problems using logic and quantitative techniques.

Students will be able to construct solutions to problems using computational techniques.

MTH333

Students will be able to apply their mathematical knowledge to solve problems.
Students will be able to use technology to solve problems.

MTH343

Students will be able to write proofs.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to apply their mathematical knowledge to solve problems.
Students will use the theory of algorithms and computation to solve problems.

MTH352

Students will be able to write proofs.
Students will be able to demonstrate facility with analytical concepts.
Students will be able to demonstrate facility with algebraic structures.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH362

Students will be able to compute measures of central tendency for data.
Students will be able to compute measures of dispersion for data.
Students will be able to use statistical methods to make inferences from data.

MTH373

Students will be able to apply their mathematical knowledge to solve problems.
Students will be able to use technology to solve problems.
Students will be able to speak about their work with precision, clarity and organization.
Students will be able to write about their work with precision, clarity and organization.
Students will collaborate effectively in teams.

MTH382

Students will be able to apply their mathematical knowledge to solve problems.
Students will be able to use technology to solve problems.
Students will collaborate effectively in teams.

MTH392

Students will be able to apply their technical knowledge to solve problems.
Students will be able to apply their mathematical knowledge to solve problems.

MTH402

Students will be able to demonstrate facility with analytical concepts.
Students will be able to write proofs.
Students will be able to apply their mathematical knowledge to solve problems.

MTH413

Students will be able to demonstrate facility with analytical concepts.
Students will be able to apply their mathematical knowledge to solve problems.

MTH424

Students will be able to demonstrate facility with analytical concepts.

Students will be able to write proofs.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

MTH444

Students will be able to write proofs.

Students will be able to demonstrate facility with algebraic structures.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

MTH463

Students will be able to develop lesson plans to help middle and high school students to learn mathematical concept.

Students will have practice in communicating mathematical concepts to others.

MTH471

Students will be able to demonstrate facility with analytical concepts.

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

MTH481

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

MTH491

Students will achieve the learning objectives set by the instructor. They depend on the material selected for the class.

MTH492

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to use technology to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

MTH496

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to use technology to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

MTH497

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to use technology to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

Students will collaborate effectively in teams.

MTH498

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to use technology to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.

MTH499

Students will be able to apply their mathematical knowledge to solve problems.

Students will be able to use technology to solve problems.

Students will be able to speak about their work with precision, clarity and organization.

Students will be able to write about their work with precision, clarity and organization.