Course Descriptions

**DAT0110 Computer Skills**

A solid foundation in basic computer skills and digital literacy is necessary to be successful in both college and a career. Students develop skills in word processing, file management, presentation software and spreadsheet operations. They also become familiar with Brightspace, Algonquin College’s learning management system.

Prerequisite(s): none
Corerequisite(s): none

**DAT5959 Keyboarding**

Develop keyboarding skills.

Prerequisite(s): none
Corerequisite(s): none

**ENL0076 Communications: Preparation for Degree Programs**
Communication, reading, academic writing, and critical thinking skills are necessary for success in college, university, and daily life. Students develop and write academic essays and reports for different purposes. Emphasis is placed on generating ideas, developing a thesis, collecting and evaluating secondary sources and the correct citation of sources. Students acquire greater control over academic writing through coherent and grammatically correct use of academic language. Students read, interpret and respond critically to a variety of texts for a variety of purposes. Students create and present a multi-media oral report. This course is accepted as the English prerequisite for Algonquin College bachelor degree programs requiring ENG4U.

Prerequisite(s): DAT0110 and ENL5952
Corerequisite(s):none

ENL5952 Communication 5

Good communication skills and a self-directed approach to learning are key to sustained success in both college and a career. Through individual study and frequent feedback on progress, students analyze the components of good writing, write short essays and business correspondence, take notes, summarize text and prepare a resume. Students identify their support system and potential barriers to success, articulate their readiness to learn, monitor their own progress and produce work within set time frames.

Prerequisite(s): ENL5956
Corerequisite(s):none

ENL5958 College Preparation Communication

Good communication skills and a self-directed approach to learning are key to sustained success in both college and a career. Through individual study and frequent feedback on progress, students write essays using various organizational structures, read and report on short stories, explore and assess the role media and advertising plays in their lives, and practice using Algonquin College Library resources. Finally, students research and produce a report and present their findings in an oral presentation. Students monitor progress and produce work within set timeframes. This course is accepted as the English prerequisite for programs requiring ENG4C.

Prerequisite(s): DAT0110 and ENL5952
Corerequisite(s):none

MAT0001 College Preparation Mathematics - Technical

A solid foundation in mathematics is necessary for further study in technical fields. Through individual study and frequent feedback on progress, students solve problems by analyzing linear relations, using linear systems, quadratic relations, quadratic expressions, quadratic equations and trigonometry of right triangles. This course is accepted as the math prerequisite for technician/technology programs at Algonquin College requiring MAP4C and MCF3M.

Prerequisite(s): MAT5951
Corerequisite(s):none

MAT0010 College Preparation Mathematics - Business

A solid foundation in mathematics is necessary for further study in business fields. Through individual study and frequent feedback on progress, students solve problems by analyzing linear relations, using interest, exponential functions, series and sequences, and annuities. This course is accepted as the math prerequisite for business and health programs at Algonquin College requiring MAP4C and MCF3M.

Prerequisite(s): MAT5951
Corerequisite(s):none

MAT0030 Mathematics Fundamentals for Apprenticeship Preparation

A solid foundation in mathematics is necessary to succeed in apprenticeship training. Through skills-based problem solving, individual study and frequent feedback on progress, students learn
to solve problems related to their trade which may include the following: fractions, decimals, percent, ratio and proportion, the metric system, measurement, order of operations, use number sense, manipulating linear and non-linear relations, exponents, polynomials and trigonometry of right triangles.

Prerequisite(s): none
Corerequisite(s): none

**MAT0034 Degree Preparation Math - Data Management**

A solid foundation in mathematics is necessary for further study in postsecondary programs that require the ability to manage data. Students will examine permutations, combinations, and probability distributions. Through individual study, frequent feedback on progress, and a culminating assignment, students will learn to organize and analyze data as well as solve mathematical problems. This course is accepted as the math prerequisite for degree programs at Algonquin College requiring MDM4. Prerequisites: MAT0001 or MAT0010

Prerequisite(s): none
Corerequisite(s): none

**MAT5951 Intermediate Mathematics**

A solid foundation in mathematics is necessary to everyday life and serves as a basic building block for more advanced mathematics. Through individual study and frequent feedback on progress, students solve problems using number sense, integers, rational numbers, linear and non-linear relations, exponents, polynomials, modelling with equations and data management. This course is accepted as the math prerequisite for programs requiring MBF3C.

Prerequisite(s): MAT5957
Corerequisite(s): none

**MAT5952 College Preparation Mathematics - Technology**

A solid foundation in mathematics is necessary for further study in technology fields. Students solve problems using trigonometry of acute triangles, vectors, exponential functions and logarithmic functions. Through skills-based problem solving, individual study, and completing assessments, students refine technological math skills. This course is accepted as the math prerequisite for technology programs at Algonquin College requiring MCT4C.

Prerequisite(s): MAT0001
Corerequisite(s): none

**MAT5957 Fundamental Mathematics**

A solid foundation in mathematics is necessary in everyday life and serves as a building block for more advanced mathematics. Students solve problems using whole numbers, decimals, fractions, percent, ratio and proportion, the metric system, measurement and order of operations. Through individual study and frequent feedback on progress, students refine their fundamental math skills.

Prerequisite(s): none
Corerequisite(s): none

**MAT5964 Fundamental Mathematics for Preparation for Health Science**

A solid foundation in mathematical concepts and applications are essential to students entering health science professions. Through individual study, online tutorials and frequent feedback on progress, students solve problems using decimals, fractions, ratio and proportion, percent, the metric system, systems of measurement and special dosage calculations.

Prerequisite(s): none
Corerequisite(s): none
SCI5952 College Preparation Biology

Detailed knowledge of the human body and biological systems is essential for students entering health science professions. Students study the cell, genetics, nutrition, and the following body systems: nervous, respiratory, cardiovascular, urinary, lymphatic, reproductive and digestive. Student activities include lectures, laboratory exercises, group work, online exercises and video commentary. This course is accepted as the biology prerequisite for programs in the college system, including the two-year Ontario College Diploma in Practical Nursing.

Prerequisite(s): none
Corerequisite(s):none

SCI5953 College Preparation Chemistry

Foundational knowledge of chemistry is valuable for students entering health science professions. Students study matter, the atom, the periodic table, chemical bonding, the mole, chemical reactions, gas laws and basic organic chemistry. Student activities include lectures, laboratory exercises, group work, online exercises and video commentary. This course is accepted as the chemistry prerequisite for programs in the college system, including the two year Ontario College Diploma in Practical Nursing.

Prerequisite(s): none
Corerequisite(s):none

SSC5727 Success Strategies

Understanding and developing key strategies for learning are essential skills to ensure academic and career success and strengthen future learning opportunities. Students explore the theories and principles of learning, brain function, learning styles, motivation and group dynamics. Special attention is placed on analyzing oneself as a learner and preparing for future personal and career goals. Students learn the importance of critical thinking, problem solving and working in a team. The course lays the foundation for students to develop personalized learning strategies in a collaborative and supportive learning environment through interactive workshops, discussion board activities, team presentations and journal writing.

Prerequisite(s): none
Corerequisite(s):none