University Prerequisites (080.04)

Pathway to a University Program

College Education

2013 Version

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Aim of the Pathway

The *University Prerequisites* pathway is designed to prepare students for university programs.

Admission Requirements

A student is eligible for this pathway if he or she must attain one or more objectives that are prerequisites for admission to a university program.

Training Offered

The courses that may be offered in the *University Prerequisites* pathway must fall into one of the following categories.

Courses Related to Objectives Designated by the Ministère as Prerequisites for University Studies

The following objectives are designated as university prerequisites:

- 00UK or 0B01 — Analyze the organization, functioning and diversity of living beings; Explain the structures and functions of cells as the basic units of life
- 0B02 — Analyze the interactions of living organisms in the biosphere
- 00UL or 0C01 — Analyze chemical and physical changes in matter using concepts associated with the structure of atoms and molecules; Analyze properties of matter and chemical changes
- 00UM or 0C02 — Analyze the properties of solutions and reactions in solutions; Analyze chemical systems in solutions
- 0M01 — Solve problems related to the natural sciences using statistical methods and probability concepts
- 00UN or 0M02 — Apply the methods of differential calculus to the study of functions and problem solving; Analyze problems by applying differential calculus
- 00UP or 0M03 — Apply the methods of integral calculus to the study of functions and problem solving; Analyze problems by applying integral calculus
- 00UQ or 0M04 — Apply the methods of linear algebra and vector geometry to problem solving; Analyze problems using linear algebra and vector geometry concepts

- 00UR
  or
  0P01 — Analyze various situations and phenomena in physics using the basic principles of classical mechanics
- 00US
  or
  0P02 — Analyze physical situations and phenomena using the fundamental laws and principles of classical mechanics
- 00UT
  or
  0P03 — Analyze various situations or phenomena associated with waves, optics and modern physics using basic principles
- 0F01 — Analyze physical situations and phenomena using the fundamental laws and principles of waves and modern physics
- 00XU
  or
  0B0F — Develop software programs to automate problem-solving in a scientific context
- 00XV
  or
  0C0F — Analyze the structure and functioning of multicelled organisms in terms of homeostasis and from an evolutionary perspective
- 01DG — Explain how the systems of the human body contribute to homeostasis
- 01DH — Solve simple problems in organic chemistry
- 01DJ — Analyze the structure and reactivity of organic molecules
- 01DK — Perform musical works
- 022K
  or
  0N03 — Demonstrate auditory acuity in the transcription and vocal performance of musical scores
- 022M
  or
  0N02 — Explore elements of musical language
- 022P
  or
  0ME3 — Appreciate various characteristics of musical works

- 022Q or 0ME2 — Apply the scientific approach used in the field of Social Science to empirical research / Carry out scientific research by applying a qualitative method used in the social sciences
- 022V or 0PU1 — Explain the cellular and systemic regulation and the reproductive system of the human organism / Explain how biological systems affect homeostasis and human behaviour
- 022W or 0PU5 — Apply advanced statistical tools, based on the probability theory, to decision making in contexts of study in the field of Social Science / Analyze problems studied in the social sciences by using statistical tools based on probability theory
- 022X or 0PU2 — Apply methods of differential calculus to the study of functional models in the field of Social Science / Analyze problems studied in the social sciences by using differential calculus
- 022Y or 0PU3 — Apply methods of integral calculus to the study of functional models in the field of Social Science / Analyze problems studied in the social sciences by using integral calculus
- 022Z or 0PU4 — Apply methods of linear algebra and vector geometry to the study of various phenomena of human activity / Analyze problems studied in the social sciences by using linear algebra and vector geometry
- 0545 — Apply an art history method
- 0546 — Interpret visual artworks from different periods
- 0548 — Represent live models, objects and sites, drawing from observation
- 0549 — Use drawing as a tool of artistic creation
- 054A — Apply painting techniques to create an artwork
- 054C — Apply sculptural techniques to create an artwork
- 054E — Create photographic images for artistic purposes
- 054F — Use image processing techniques as a tool of artistic creation
- 054Z — Communicate in French (vantage level for independent users)
- 0550 — Communicate in French (effective operational proficiency level for proficient users)
- 0551 — Communicate in a third language (threshold level for independent users)

- 0552 Communicate in a third language (vantage level for independent users)
- 0557 Communicate in a modern language (threshold level for independent users)
- 0558 Communicate in a modern language (vantage level for independent users)

Courses Related to Other Objectives of Pre-University Programs and Required by a University

Courses in this category can only be offered to candidates admitted to university as mature students, and at the request of a university. Courses in this category must not exceed 6 credits.

Information on these pre-university programs is available, in English and French, on the quebec.ca Web site.

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