

<b>Course Code</b>	<b>College Algebra</b> UNYP 64152
<b>Level</b>	Lower-level course in a Bachelor's degree program
<b>Credits</b>	3 semester credits / 6 ECTS
<b>Pre-requisite(s)</b>	None

<b>Scheduled meetings</b>	45 hours
<b>Average preparation time</b>	105 hours
<b>Total student work time</b>	150 hours

**Description** The course consists of the study of basic concepts and techniques of Algebra, Geometry and Real Analysis: factoring, multiplying and dividing algebraic expressions, coordinate geometry, functions and functional notation, polynomials, exponents, logarithms, and inequalities. It provides primarily preparation for more advanced courses, but also open to students desiring a background in college algebra.

**Learning outcomes** Upon successfully completing this course, the student will be able to:

- factor, multiply, and divide algebraic expressions;
- understand the key concepts of coordinate geometry;
- solve algebraic equations and inequalities;
- understand functional notation;
- use functions when solving application problems;
- know the basic properties of polynomial and rational functions.

**Study literature** Stewart, J., Redlin, L., & Watson, S. (2000). College Algebra, 3rd edition. Pacific Grove: Brooks/Cole.

Additional readings available on UNYP E-Learn or in the UNYP Library.

All courses are taught in English, with the exception of language courses. UNYP's 3-year and 4-year Bachelor's programs are accredited by the Czech Accreditation Commission, a part of the Czech Ministry of Education, Youth and Sports, and lead to the award of a *bakalář* (Bachelor's) degree. UNYP's 3-year Bachelor's of Business degree is also accredited by the the U.S.-based International Assembly for Collegiate Business Education (IACBE), a CHEA-recognized accreditor.