

<b>Course Code</b>	<b>Statistics for Business &amp; Economics I</b> UNYP 20309
<b>Level</b>	Upper-level course in a Bachelor's degree program
<b>Credits</b>	3 semester credits / 6 ECTS
<b>Pre-requisite(s)</b>	C- or better in Basic Calculus

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

**Description** Statistical analysis of economic and business problems with emphasis on statistical inference. Rigorous treatment of probability theory and probability and sampling distributions. Estimation and hypothesis testing of (population) parameters are emphasized.

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

- summarize data and calculate main summary measures;
- understand the basic concepts and principles of the probability theory;
- deal with various kinds of probability distributions;
- apply probability distributions when solving application problems;
- understand the key principles of random sampling and sampling distributions;
- estimate population parameters using point estimators or confidence intervals.

**Study literature** Business Statistics. Groebner, D.F., Shannon, P.W., Fry, P.C., Smith, K.D. Prentice-Hall. Year: 2001 (Edition 5)

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.