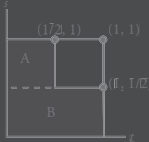


Bachelor of Science in Actuarial Science



The actuarial profession has been rated as one of the top four jobs in America. — Job Rated Almanac

$$F(x) = \Pr[X \leq x] = \int_1^x 3t^{-4} dt = -t^{-3} \Big|_1^x = 1 - x^{-3}$$

General Information

A relatively new field, Actuarial Science is the study of mathematics and financial theory to determine the financial effect that uncertain future events such as birth, death, retirement, fire, accident, and sickness have on insurance and benefit plans. The competitive actuarial profession requires college graduates to have analytic, statistical, and computational skills, which allow them to solve industrial problems, predict the financial effects of uncertain future events, and carry out decision-making analyses.

What is an Actuary?

Actuaries provide expert advice and relevant solutions for business and societal problems that involve economic risk. For example, an actuary can suggest investment strategies based on risk and potential return for a

company. An actuary will determine potential gains when a new international market opens or forecast the return on investment in the development of a new product.

Careers in Actuarial Science

Actuaries work for large businesses such as insurance firms, employee benefits companies, consulting firms, financial institutions, and government agencies.

Similar to accountants, actuaries are required to pass professional exams that test their professional knowledge and skills. The actuarial sciences program at IU South Bend prepares students for early exams. Later exams are taken after a course of self-study. Graduates

have the opportunity to be employed as actuaries while continuing to study for later exams.

Through the variety of coursework needed in the major, actuarial science graduates also are prepared for other business fields, such as quality control, computational analysis, information management, forecasting, risk analysis, simulation, and finance. The major also prepares students for graduate studies in either mathematics or business.

Actuaries have tremendous earning potential — the typical starting salary is over \$40,000, and those who have passed all the professional exams can earn six figure incomes.

Bachelor of Science

PERSONAL GROWTH CAREER ADVANCEMENT
AFFORDABLE CONVENIENT
PERSONAL ATTENTION
THE POWER OF AN IU DEGREE

Fast Facts*

in Actuarial Science

A bachelor's degree requires **122** credit hours in several areas.

The credit distribution is:

- English Composition (6 cr.)
- Foreign Language (6 cr.)
- Arts and Humanities (12 cr.)
- Social and Behavioral Sciences (12 cr.)
- Natural Sciences (12 cr.)
- Computer Science (4 cr.)
- Business and Economics (18 cr.)
- Mathematics (33 cr.)
- Statistics (6 cr.)
- Actuarial Science (9 cr.)
- Electives (4 cr.)

Degree Awarded

IU South Bend graduates earn IU degrees

Students

7,501

Student-Faculty Ratio

14-1

Tuition

Resident: \$144.95 per credit hour

Non-resident: \$380.65 per credit hour

Financial Aid

\$25 million is distributed to 60% of students

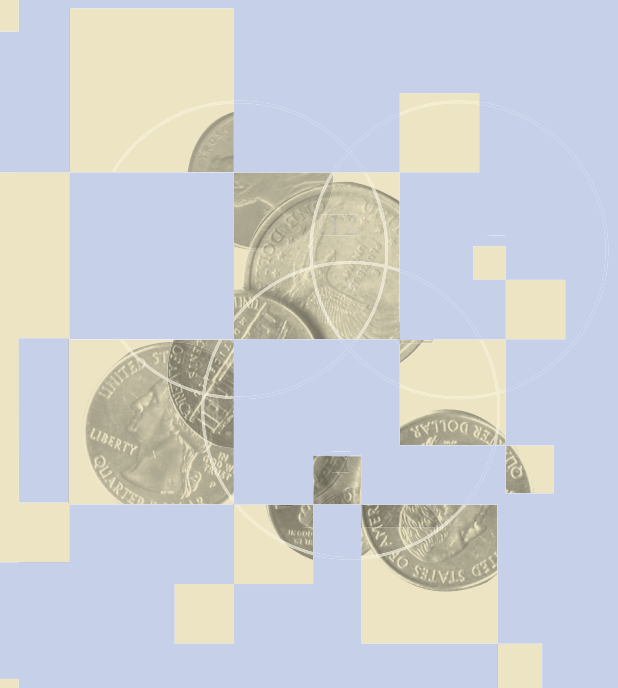
Technology

436 computers in 13 computer labs

Programs of Study

More than 100 undergraduate degree and certificate programs

17 graduate programs



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