Actuarial Science is the study of uncertain future events and the use of mathematics, statistics and financial theory to measure the financial consequences of risk. Actuaries work in all sectors of the economy, like insurance companies, banks and the government sector. Actuarial Science students are required to sit for a series of professional examination papers and fulfill practical training requirements via a North American professional actuarial body to obtain their professional certification. Outstanding INTI students have received scholarships from Drake University, the University of Nebraska-Lincoln and other universities to pursue a degree in Actuarial Science.

### Professional examination

Students sit for a series of professional examinations in order to qualify as a Certified Actuary. The American Society of Actuaries (SOA) requires candidates to complete five examinations, an e-learning course, VEE validation and a professionalism seminar in order to become an Associate (ASA).

To become a Fellow (FSA), a candidate needs to successfully complete all requirements for ASA, two more examinations and two more modules based on their specialty track. The American Casualty Actuarial Society (CAS) requires a series of nine examinations for certification as a Fellow. The first four examinations of these two societies are identical.

For more information regarding professional examinations, log on to [www.soa.org](http://www.soa.org), [www.casact.org](http://www.casact.org) or [www.actuaries.org.my](http://www.actuaries.org.my).

Students may also apply for membership with the Malaysian Insurance Institute in order to enjoy special privileges and access to information and resources.

### Popular universities for Actuarial Science

#### US Universities
- Drake University
- Purdue University
- University of Central Oklahoma
- University of Illinois at Urbana Champaign
- University of Iowa
- University of Nebraska, Lincoln
- University of Wisconsin, Eau Claire
- University of Wisconsin, Madison

#### Canadian Universities
- Acadia University
- University of Manitoba
- University of New Brunswick
- University of Waterloo

### Sample curriculum for Year 1 & 2

- Business Communication
- Business Law
- Calculus with Analytic Geometry 1
- Calculus with Analytic Geometry 2
- Calculus with Analytic Geometry 3
- English Composition 1
- English Composition 2
- Essentials of Public Speaking
- Fine Arts Electives
- Financial Management
- Humanities Electives
- Introduction to Computers
- Introduction to Linear Algebra
- Introduction to Microeconomics
- Introduction to Macroeconomics
- Mathematical Statistics
- Natural Sciences Electives
- Principles of Accounting 1
- Principles of Accounting 2
- Principles of Marketing
- Social Science Electives

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