

**The actuarial science program is designed to train students to think both critically and analytically, and to develop their problem-solving skills.**

Students participating in the program will quantify problems commonly encountered in business and develop the mathematical background necessary to solve these problems analytically. Students satisfying the requirements of the major will concurrently satisfy the joint educational experience requirements of the Society of Actuaries and the Casualty Actuary Society and should be adequately prepared to pass the professional exams offered by these organizations.

## CAREER OPPORTUNITIES

The actuarial science major is designed to prepare students for a career as an actuary, a profession involved in several diverse areas of the business world including asset/fund management, investment, and pension-plan design as well as its traditional role with insurance companies. Actuaries apply statistical techniques to analyze the likelihood of uncertain future events and then use financial analyses in order to value these events. Actuaries find employment in a variety of different areas including:

- Banks
- Consulting firms
- Health care and maintenance organizations
- Insurance companies
- Investment firms
- Public accounting firms
- State and federal government

Siena graduates are currently employed with companies such as:

- Creative Pension Consultants
- Danziger & Markhoff, LLP
- Farm Family Insurance
- Mutual Trust Financial Group
- MVP Health Care
- New York State Teachers' Retirement System
- State Farm Insurance

## INTERNSHIPS

Through an internship, students can explore whether or not the actuarial field is truly for them. While they are engaged in the internship, students will develop better communication skills, receive real-world experience, and gain the self-confidence necessary to present their ideas effectively. Past actuarial internship opportunities have come mainly through the New York State Retirement System. Siena students have been actively recruited for the Liberty Mutual Summer Internship Program in recent years. Other internship opportunities include:

- Buck Consultants
- New York Life
- New York State Insurance Department
- Northwestern Mutual
- State Farm Insurance



## FACILITIES

Siena College offers the best possible environment for students to excel and achieve in actuarial science. Small class size allows faculty to give students individualized attention. Actuarial students will take their introductory mathematics courses in the mathematics lab, which has 16 MacIntosh G4 computers with access to Mathematica and SPSS.

Several of their upper-level courses in finance will be held in the Hickey Financial Technology Center. The center was established to give students at Siena real-world exposure to the data and tools seen in today's financial centers. Siena joins only a handful of similar facilities across the country offering this type of experience to their students.

With the resources available in the Hickey center, faculty members are able to augment traditional classroom lectures with hands-on activities designed to merge both the theoretical and practical aspects of finance. Simulations as well as hands-on projects and exercises help enrich the learning experience.

Actuarial students will also have access to the marketing research lab, which boasts state-of-the-art computing facilities with access to real-world financial products from Bloomberg, Compustat, Crystal Ball, FARS, Financial Trading System (FTS), Morningstar, Reuters, The Center for Research in Securities Prices (CRSP) and Thomson One Analytics.

## FACULTY CREDENTIALS

Since actuarial science is an interdisciplinary major, the faculty teaching in the major boasts a wide variety of research interests ranging from international finance and economics to mathematics.

**Jon Bannon, Ph.D.**, University of New Hampshire; *mathematics*

**James Booker, Ph.D.**, Colorado State University; *agricultural and resource economics*

**Kristin Farwell, Ph.D.**, Rensselaer Polytechnic Institute; *operations research*

**Eric Girard, D.B.A.**, United States International University; *international finance*

**Raluca Iorgulescu, Ph.D.**, Rensselaer Polytechnic Institute; *ecological economics*

**Thomas Kopp, Ph.D.**, Binghamton University; *economics*

**Nikolai Krylov, Ph.D.**, University of Illinois at Chicago; *mathematics*

**Joseph McCollum, Ph.D.**, University at Albany; *mathematics*

**John O'Neill, Ph.D.**, University at Albany; *mathematics*

**Richard Proctor, Ph.D.**, University of Southern Florida; *finance*

**Elias Shukralla, Ph.D.**, Western Michigan University; *applied economics*

**Scott Trees, Ph.D.**, University of Notre Dame; *economics*

**Fang Zhao, D.B.A.**, Louisiana Tech. University; *finance*

## SIENA facts

**Siena College is a learning community advancing the ideals of a liberal arts education, rooted in its identity as a Franciscan and Catholic institution.**

**Location:** Loudonville, New York; two miles north of Albany

**Campus:** Suburban; 174 acres

**Enrollment:** 3,000 undergraduates; 55% women, 45% men

**Cost:** \$35,280 (tuition, room, board and fees for 2009-2010)

**Average SAT score for incoming freshmen class:** 1162

**Percentage of applicant pool admitted:** 53%

**Student/faculty ratio:** 14:1

**Class size:** 15 to 35

**Average class size:** 21

**Lab size:** 10 to 19

**Retention:** 75% of students graduate in 4 years and 88% of freshmen students return for their sophomore year.

**Student housing:** 80% of students live on campus.

**Computer access:** All Siena students have Internet and e-mail access, and students have 24-hour access to the campus-wide computer system. Wireless access is currently available in a majority of the buildings on campus.

**Academics:** 30 degree programs, 43 minors and certificate programs, and numerous independent study opportunities in Science, Business, and Liberal Arts. Nine of every ten professors at Siena hold the highest degree attainable in their field.

**Internships:** Combining class work with real-world experiences is an essential part of a Siena education. Last year nearly 400 students interned with approximately 300 different organizations.

**Campus life:** 60+ organizations featuring volunteer activities, campus ministry, student government, academic, and professional clubs.

**Athletics:** Siena, a member of NCAA's Division I athletic programs, competes in 18 sports (7 men and 11 women). Siena also has nine club sports and numerous intramural sports.

**For more information, contact the Admissions Office at 1-888-AT-SIENA or visit us on the web at [www.lmsiena.com](http://www.lmsiena.com).**