

Pre-Professional Programs

IDSC	466	City Arts: Reading Seminar
IDSC	467	City Arts: Field Seminar
IDSC	468	City Arts: Internship
IDSC	469	City Arts: Internship Seminar

Metro Urban Studies Term (MUST) (fall and spring semesters)

Through a combination of seminars, field study and a professional internship in the Twin Cities, students explore the realities of social inequalities in urban America and strategies for bringing about change. The four courses below are taken as an integrated whole in this semester-long off-campus study experience.

IDSC	471	MUST Seminar: Research on Urban Issues
IDSC	472	MUST Seminar: Field Studies in the Twin Cities
IDSC	473	MUST: Urban Studies Internship
IDSC	474	MUST: Urban Studies Internship Seminar

Community Internships in Latin America (CILA) (fall semester)

CILA combines an internship, independent study and seminars on community participation and development in the Latin American urban setting. Based in Quito, Ecuador, students live with local families and are involved in field projects in outlying areas.

Guatemala: Politics, Development, and the City (fall semester)

This is an interdisciplinary, field-learning program that examines the relationship between development issues and the consequences of urbanization in Latin America. The program is based in Guatemala City, Guatemala, where students live with local families. Students gain a comparative perspective through study-travel in other regions of Guatemala and in Ecuador.

Scandinavian Urban Studies Term (SUST) (fall semester)

SUST, offered in affiliation with the University of Oslo, provides a broad survey of contemporary Scandinavian societies, issues of the modern welfare state and social democracy. The city of Oslo is the primary field-study site, supplemented by travel in other parts of Scandinavia and the Baltic states.

The Civil Rights Movement: History and Consequences (January term)

The focus of this program is the civil rights movement and the current challenges to U.S. democracy. Primary states involved in the study include Tennessee, Georgia, Alabama and Mississippi.

Development and Community in Bangladesh (January term)

Through lectures, discussions and group field study (with Bangladeshi collaborators), students explore the policies, practices and ideologies of socio-economic development in rural and urban Bangladesh.

Environment, Economy and Community in Latin America (EECLA) (spring semester)

Explores the impact of global development on local culture and environment and the response of indigenous communities and other affected groups. Latin American faculty, guest resource persons and field placements guide students' learning. Based in Guatemala City, with study-travel in other regions of Guatemala and in Cuba.

Northern Ireland: Democracy and Social Change (spring semester)

This program is centered in Coleraine, Northern Ireland, with field study-travel in Northern Ireland and Ireland.

Pre-Professional Programs

A carefully-crafted baccalaureate degree can prepare a student for entrance to a professional school. The following programs of study will be helpful for students planning such a career.

Pre-Engineering (PNGR)

Tommet (PHYS), Marsh (CHEM), Jalkio (ENGR), advisory committee

Besides offering degree programs in electrical and mechanical engineering, the University of St. Thomas offers a choice of pre-engineering programs to provide the student with a broad range of engineering fields. The program prepares for all engineering fields which include: aeronautical, aerospace, agricultural, architecture, biomedical, chemical, civil, computer, electrical, engineering science, geological, industrial, materials science, mechanical, metallurgical, mineral and nuclear.

The programs of study are arranged so that a student may transfer to an engineering school with a maximum number of acceptable credits and yet, if a change in major is made while at the university, a maximum number of credits will be applicable to the St. Thomas requirements for graduation. In addition to the liberal arts, courses pre-requisite to an engineering school program are available in areas of mathematics, physics, chemistry, computer programming, and engineering. There are few significant differences in courses taken in the first two years of undergraduate study toward any type of engineering field. All pre-engineering students take mathematics, physics, and chemistry courses, along with a seminar introducing them to the various fields of engineering and to the work of engineers.

A Liberal Arts-Engineering (3-2) program is offered formally in cooperation with the University of Notre Dame, Washington University in St. Louis, and the University of Minnesota, and informally with virtually any

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other engineering school. The student will normally spend three years at St. Thomas and, upon approval of St. Thomas and acceptance by the engineering school, two additional years at the engineering school in an engineering field. Upon satisfying the requirements for graduation of both institutions, the student will receive a bachelor of arts (B.A.) degree from the University of St. Thomas and a bachelor of science degree in the selected field of engineering from the engineering school.

A four-year (4-2) program is offered formally in cooperation with the University of Minnesota, and informally with virtually any other engineering school. The student normally spends four years at St. Thomas and graduates with a major in Physics, Mathematics, Chemistry, or Quantitative Methods and Computer Science. The student then enters a masters or bachelors program at an engineering school.

A two-year (2-2) program is offered in which the student normally spends two years at St. Thomas (although transfer may be initiated at any time) and two years in a selected engineering field at an engineering school. No St. Thomas degree is awarded.

For all these programs, students are strongly encouraged to discuss with a pre-engineering adviser their own individual program. Each student, field, and school has different needs and requirements.

Liberal Arts – Engineering Program

CHEM	111	General Chemistry I
CHEM	112	General Chemistry II
ENGR	150	Introduction to Engineering (0 credit)
ENGR	151	Introduction to Engineering Design (1 credit)
MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
PHYS	111	Introduction to Classical Physics I
PHYS	112	Introduction to Classical Physics II
QMCS	230	Software Design Using the JAVA Language

At least three additional courses are required. Which technical courses are needed will depend upon the field of engineering. Students must discuss their program with a pre-engineering adviser.

Pre-Health Professions

Ovechka, adviser

The pre-health professions adviser will help students interested in any of the health professions to plan a specific program of coursework in preparation for a professional school.

To aid students in making an informed choice of a health professions career, there are four non-credit health professions internships:

BIOL	215	Regions Hospital Volunteer Program (0 credit)
BIOL	216	Basic Nursing Skills Training Program (0 credit)
BIOL	217	Students and Physicians Program (0 credit)
BIOL	218	Pre-Dental Internship Program (0 credit)

Pre-dentistry

Schools of dentistry (including the University of Minnesota) generally require a minimum of three years of college coursework prior to admission to their programs. Most accepted applicants (85%) have completed four years of college. While a baccalaureate degree generally is not required, 75% of students in dental schools have received a baccalaureate degree or higher.

Specifically required or highly recommended courses vary from one dental school to another. The School of Dentistry at the University of Minnesota requires study in each of the following subjects:

- three semesters of biology
- two semesters of general chemistry
- two semesters of organic chemistry
- one semester of biochemistry
- two semesters of physics
- two semesters of English
- one semester of psychology
- a course in public speaking (recommended)
- college algebra or pre-calculus (by college credit or college validation) or computer science or statistics

Pre-medicine

Most medical schools require a minimum of three years of undergraduate work before entrance to their programs, and the three medical schools in Minnesota all require a baccalaureate degree. Specifically required or highly recommended courses vary from one medical school to another.

Two semesters of study in each of the following subjects are required for admission to many medical schools.

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Particular medical schools may require more coursework in these subject areas or in other disciplines:

- biology
- general chemistry
- organic chemistry
- physics
- English

A number of medical schools also require one to two semesters of calculus or other college-level mathematics or statistics. The University of Minnesota (Twin Cities and Duluth) also require one semester of biochemistry. Medical schools generally do not require a specified undergraduate major.

The health professions adviser is available to help students choose the specific coursework necessary to meet admissions requirements, explain admissions procedures, provide information to students about career alternatives, *etc.* Students interested in a career in medicine should consult with the health professions adviser early in their freshman year to plan an appropriate four-year program.

Pre-pharmacy

Required courses vary from one school to another, and students are encouraged to research various programs early in their undergraduate program. The Pharm.D. program at the University of Minnesota requires completion of the following courses:

- three semesters of biology
- two semesters of anatomy and physiology
- one semester of microbiology
- two semesters of general chemistry
- two semesters of organic chemistry
- two semesters of physics
- one semester of calculus
- two semesters of behavioral science
- two semesters of English
- one semester of economics
- one semester of public speaking

Pre-veterinary

Required courses vary from one school to another, and students are encouraged to research various programs early in their undergraduate program. The veterinary school at the University of Minnesota requires the following coursework:

- biology
- general chemistry
- organic chemistry
- biochemistry
- mathematics
- physics
- genetics
- microbiology
- English

Four courses from history and social sciences, arts and humanities are also required.

Other Pre-Health Professions

Many courses are offered at St. Thomas to prepare students for admission to the following health professional schools: chiropractic, optometry, osteopathic medicine, physical therapy, physician assistant, podiatric medicine, and public health.

Students are encouraged to research the programs at each professional school and to seek the guidance of the pre-health professions adviser.

Pre-Law

Hatting (POL) and Marsnik (BLAW) advisers

The best preparation for the study of law is a rigorous undergraduate program that combines depth of study in a major field with breadth of study in the liberal arts. The only true criterion for choice of a major is that it challenge the student's intellectual capabilities.

Regardless of major, pre-law students should include as wide a selection of the following courses, listed alphabetically by departmental designation, as their degree program allows. Each is beneficial for:

A. Increasing the student's knowledge of law

- BLAW 301 Legal Environment of Business
- BLAW 303 International Business Law
- BLAW 401 Legal Research, Advocacy, and Dispute Resolution
- ECON 321 Law and Economics
- ECON 332 Industrial Organization

Affiliated Programs

HIST	326	English Law and Government before the American Revolution
HIST	365	U.S. Constitutional History
IDSC	340	Criminal Law and the Social Order
JOUR	304	Media Law
POL	205	Introduction to American Public Policy Process
POL	312	Judicial Process
POL	313	Constitutional Law and Politics
POL	314	Constitutional Rights and Liberties
POL	326	International Law and Organizations
POL	414	Seminar in Law and Judicial Politics

B. Fostering critical thinking about society

HIST	361	American Thought and Culture Since the Civil War
PHIL	357	Political Philosophy
PHIL	359	Philosophy of Law
POL	373	Political Thought from Marx to the Present
POL	375	American Political Thought

C. Providing useful skills and improving analytical ability

ACCT	205	Introduction to Accounting
COMM	100	Public Speaking
COMM	250	Argumentation and Advocacy
ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
JOUR	311	Persuasion in Writing
MATH	101 or 113	Finite Mathematics or Calculus I
PHIL	220	Logic

Study Abroad Programs (SABD)

Stevenson (International Education Center), director

The University of St. Thomas encourages its students to incorporate international experience into their academic plans and offers a wide variety of overseas opportunities that serve as an integral part of a student's degree program. These opportunities encompass a wide range of options, including length of stay (semester, academic year, January or summer), course selection and geographic locale. The staff of the International Education Center assists students in identifying study, work or travel programs appropriate to the individual's desires and goals.

Students may not apply for nor participate in a Study Abroad program while on academic or disciplinary probation.

Year/Semester Abroad

London Business Semester

The University of St. Thomas sponsors a special fall semester program in London for business majors and minors. Students, accompanied by one or more St. Thomas business faculty members, take regular St. Thomas business and liberal arts courses, as well as complete the BUS 200 Community Service requirement.

Liberal Arts Semester in Paris

A spring semester program in Paris, led by a St. Thomas faculty member, offers students the opportunity to fulfill core curriculum requirements in the humanities (e.g. fine arts, philosophical and moral reasoning, faith and the Catholic tradition, historical studies, language and culture). Participants must complete at least one semester of French before beginning the program and continue to study French while abroad.

Catholic Studies in Rome

Students in Catholic Studies may participate in St. Thomas' program in Rome for one or two semesters. Students are enrolled at the Angelicum, a pontifical university where they take courses in Catholic social thought, theology, and social justice, as well as Italian language. A St. Thomas faculty member directs the program on site.

Glasgow English Semester

English majors and minors, accompanied by a St. Thomas faculty member, study at the University of Glasgow in the spring. Students take two courses in English and/or English or Scottish Literature and one or two courses in another subject area (typically history, theology, or fine arts).

Exchanges with other universities

St. Thomas students may study at one of the following universities through established exchange programs:

Australia:	Curtin University, Perth
England:	Lancaster University, London School of Economics
Egypt:	American University in Cairo
Germany:	University of Trier, Fachhochschule Trier