

# Pre-Professional Programs

## Pre-Professional Programs

## Pre-Professional Concentrations

The breadth of understanding and the habits of disciplined thought that are the products of a strong, undergraduate liberal arts education provide an excellent foundation for a range of professions. The courses of study offered at Lyon provide the basic intellectual and communication skills upon which success in professional school and in a profession largely depend.

## Pre-Professional Programs Degrees

### Pre-Engineering Curriculum

#### Associate Professor Stuart Hutton

Lyon College offers several demanding programs to prepare students for an engineering degree. The 3-2 program, wherein students attend Lyon for three years, completing the core curriculum and all requirements for their particular major (usually mathematics), and then transfer to their engineering school of choice for the remaining two years. Students earn their degree from Lyon by transferring ABET-accredited engineering credit hours from a coherent engineering program as documented by the school catalog in order to satisfy Lyon graduation hours. Students will also receive an engineering degree from their school of choice following the completion of that school's individual requirements. Formal agreements exist between Lyon and the University of Arkansas, Missouri University of Science and Technology, and the University of Minnesota but entry into other schools is possible.

Pre-engineering students and the pre-engineering advisor work together to determine course schedules. The requirements and time frames may vary based upon student interest and preparation.

Lyon also offers the opportunity to receive a bachelor's degree from Lyon and a Master of Engineering degree from the University of Minnesota. This program involves four years at Lyon and, typically, two years at the University of Minnesota. Students may need to take several extra courses before proceeding through the graduate curriculum; the number of courses will vary by major and emphasis. Admission is not guaranteed.

#### NOTES

\* Students may use MTH 210, CHM 110, PHY 240 and ECO 101 to satisfy core requirements.

\* Students who begin their mathematics with MTH 110 may have to spend an extra summer or year before transferring to an engineering school.

\* The language of the programming course must be C++.

\* EM 50, Engineering Mechanics Statics is not taught at Lyon. Arrangements should be made to complete this course at an ABET-accredited engineering school as required by the program of choice after completion of the physics sequence PHY 240, 241 and PHY 250, 251.

## Summary of Minimal Requirements

Item #	Title	Credits
MTH 210	Calculus I	4
MTH 220	Calculus II	4
MTH 230	Calculus III	4
MTH 300	Differential Equations	3
CHM 110	General Chemistry I	4
CHM 120	General Chemistry II	4
PHY 240	Fundamentals of Physics I	3
PHY 241	Fundamentals of Physics I Laboratory	1
PHY 250	Fundamentals of Physics II	3
PHY 251	Fundamentals of Physics II Laboratory	1
CSC 100	Introduction to Programming in C++	3
ECO 101	Principles of Economics I	3
ENG 101	English Composition I	3
ENG 102	English Composition II	3
	HIS 101 OR HIS 102	3
	Humanities or social science electives (12-15 credits)	12-15
EM 50	Engineering Mechanics Statics	3
<b>Total Credits</b>		<b>61-64</b>

## HIS 101 OR HIS 102

Item #	Title	Credits
HIS 101	The United States I	3
HIS 102	The United States II	3

## Humanities or social science electives (12-15 credits)

### Pre-Law Concentration

#### **Professor Scott Roulier**

Studies and surveys have consistently shown that the best preparation for law school is to earn a bachelor's degree in any rigorous major requiring analytical reasoning, careful reading, and effective speaking and writing. Thus the pre-law concentration is not designed to substitute for but to augment major requirements. The Pre-law Committee has identified the following courses as providing the knowledge, understanding, and intellectual skills important to success in law school. Students with any Lyon major may elect to take this concentration.

#### *Additional Opportunities for Students in Lyon's Pre-Law Concentration*

**Law Club:** Provides visits to law schools as well as interactions with law students and practicing attorneys who graduated from Lyon.

**LSAT Prep:** Provides sample testing and scoring as well as tips on how to improve scores.

**Internships:** Selected students work in the offices of practicing attorneys.

**Model UN:** Students participate in activities important to international law.

## NOTE

Students in the pre-law concentration will be taking POL 105 as a Core requirement or majoring in business, English, and political science and thus taking some of these courses for both purposes.

### Summary of Requirements for a Pre-Law Concentration

Item #	Title	Credits
POL 105	The American Experience	3
POL 210	Introduction to Legal Studies	3
BUS 303	Business Law	3
ENG 363	Advanced Composition	3
POL 380	Civil Liberties	3
<b>Total Credits</b>		<b>15</b>