

(From 2007-2008 Lyon College Catalog)

The Pre-Engineering Curriculum

Advisor: Associate Professor Stuart Hutton

Lyon College has two demanding programs to prepare students for an engineering degree. The first is called a 2-2 program, wherein a student attends Lyon College for two years and transfers to an engineering institution for the last two to earn a Bachelor of Science degree in engineering. A formal agreement of transfer exists between Lyon College and the University of Arkansas, but entry into other schools can readily be arranged. A student will complete 60 hours of prescribed courses in liberal arts studies here, enabling the student to enter the last two years in any of the primary engineering disciplines including aerospace, chemical, civil, electrical, mechanical, nuclear, and petroleum. The pre-engineering students and their advisor work closely together to ensure that their program of study leads efficiently toward entry into their selected engineering school. The requirements listed below may vary in some limited degree depending on discipline or engineering school selected.

Summary of Requirements

MTH 210, 220, 230† Calculus I,* II, & II.....	12	credits
MTH 300 Differential Equations.....	3	credits
CHM 110 & 120 General Chemistry I* & II.....	8	credits
PHY 240, 241 & 250, 251 Fundamentals of Physics I* & II.....	8	credits
CSC 140 Introduction to Programming I.....	3	credits
ECO 101 Principles of Economics I*.....	3	credits
ENG 101, 102 English Composition I and II.....	6	credits
HIS 101 or 102 The United States I or II.....	3	credits
Humanities/Social Science Electives.....	12-15	credits
EM 50 Engineering Mechanics Statics**.....	3	credits
Total	61-64	credits

* This course may also be used 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.

**Correspondence course from University of Missouri-Rolla

The second program is called the 3-2 program, wherein a student attends Lyon College for three years, completing the Lyon College Core Curriculum and the requirements for a particular major (usually mathematics), and transfers to the engineering school of choice for the remaining two. A formal agreement of transfer exists between Lyon College and the University of Missouri at Rolla, but entry into other schools can readily be arranged. Upon completion of the fourth year, the student earns a Bachelor of Arts degree from Lyon College. The Bachelor of Science degree in a specific engineering area from the school of choice is awarded following the completion of that school's requirements for the major. Examples of five-year syllabi for engineering degrees are available upon request. The pre-engineering advisor, using the suggested five-year syllabus, will work with students to tailor individually the order in which the courses are taken.