

Engineering Transfer Program

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Engineering is the study of the art of the creative application of scientific and technological principles to the solution of problems. Although McKendree University does not award an engineering degree, students who wish to prepare themselves for transfer to an engineering program are advised to take the following foundational courses during their first 2-3 years at McKendree.

ENGINEERING TRANSFER CURRICULUM 47 crs.

Mathematics 15 crs.

MTH 210	CALCULUS I *	(4)
MTH 211	CALCULUS II **	(4)
MTH 212	CALCULUS III	(4)
MTH 370	DIFFERENTIAL EQUATIONS AND MODELING	(3)

Science 22 crs.

CHE 105	COLLEGE CHEMISTRY I *	(5)
PHY 221	UNIVERSITY PHYSICS I: MECHANICAL AND THERMAL PHYSICS	(5)
PHY 222	UNIVERSITY PHYSICS II: ELECTRICITY, MAGNETISM, AND QUANTUM PHYSICS	(5)
PHY 301	ENGINEERING MECHANICS I: STATICS	(3)
PHY 303	ELECTRONIC CIRCUITS	(4)

Programming 8 crs.

CSI 130	INTRODUCTION TO COMPUTING I *	(4)
CSI 230	INTRODUCTION TO COMPUTING II **	(4)

Recommended Second Semester Courses 3 or 5 crs.

CHE 106	COLLEGE CHEMISTRY II	(5)
<i>or</i>		
CSI 235	MATHEMATICS OF COMPUTING ***	(3)

* Courses in Calculus, Chemistry and Computing are required for all engineering majors and are often pre-requisites for other requirements. It is strongly encouraged that students take these three courses their first semester at McKendree.

** It is strongly recommended that students take these courses in their second semester at McKendree.

***Mathematics of Computing is required for both the Computer Science and Computational Science degrees at McKendree.

Engineering offers a wide variety of disciplines including but not limited to: Aeronautical, Biomedical, Ceramic, Chemical, Civil, Computer, Electrical, Environmental, Geological, Industrial, Management, Materials, Mechanical, Metallurgical, Nuclear and Petroleum. Requirements in addition to those mentioned above vary among the different disciplines, so please seek the advice of an advisor when planning a schedule. Students can obtain a Bachelor of Science degree in Computer Science, Computational Science or Mathematics from McKendree University while completing these requirements. Students are also urged to consult the requirements for the Computer Science, Computational Science and Mathematics majors that are found in this catalog.

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