

For additional information contact:

Mr. Michael G. Krtek
 Office: Justice Center 155
 Phone: 417.625.3020
 Email: krtek-m@mssu.edu
 Visit our web site at: www.mssu.edu/schtech/ems/home.htm



Faculty Sloan - Head, Chelf, Knapp, Marsh

The Physical Science Department at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia, have prepared booklets describing the Cooperative Engineering Program between these schools and MSSU. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve Area of Spiva Library. Any adviser who desires a copy of the booklet should contact the Physical Science Department.

	Semester Hours
Core Requirements (p. 33) 26 **	15
Pre-Engineering Requirements	50-51
Phys 250 General Physics I*	2
Phys 260 General Physics II*	3
Phys 290 General Physics III*	4
Phys 291 General Physics III Lab	1
Phys 312 Statics*	3
Chem 101 General Chemistry I*	5
Math 150 Calculus with Analytical Geometry I* ...	5
Math 250 Calculus with Analytical Geometry II* ...	5
Math 260 Calculus with Analytical Geometry III* ..	5
CIS 110 Programming I	3
Econ 201 Principles of Economics (Macro)	3
Elective (Math or Physics)***	7-8
Electives (Humanities/Social Science/Drafting/ Chemistry/Computer Science)***	4

65-66

*See course descriptions for prerequisites.
 **Required math and physics courses simultaneously satisfy 11 hours of Core Curriculum and major requirements.

***The student should meet with a pre-engineering adviser for the proper selection depending on the field of engineering.

Suggested Order of Study

Associate of Science Degree

Major Code 5499

Pre-Engineering Major

Freshman Year

1st Semester		Hours
Course		
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
Phys 250	General Physics I	2
Phys 260	General Physics II	3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orient]	1
		19

2nd Semester

Math 250	Calculus II	5
Phys 290	General Physics III	4
Phys 291	General Physics III Lab	1
Econ 201	Principles of Economics	3
CORE	[Fine Arts/Humanities]	3
CORE	[Kine 101 Physical Activity]	1
		17

Sophomore Year

1st Semester		Hours
Math 260	Calculus III	5
Phys 280	General Physics III	5
CIS 110	Programming I	3
CORE	[Hist 110/120 U.S. Hist]	3
CORE	[Kine 103 Lifetime Wellness]	2
		18

2nd Semester

Math 322	Differential Equations*	3
Phys 372	Electronic Circuits*	4
Phys 312	Statics	3
Phys 341	Thermal Physics*	4
OR		
Phys 322	Classical Mechanics*	3
CORE	[Comm 100 Oral Communication]	3
		16-17

*Suggested elective, not required for A.S. degree.

For additional information contact:

Mr. Marion Sloan
 Office: Reynolds Hall 213
 Phone: 417.625.9616
 Email: sloan-m@mssu.edu