

TYPICAL SCHEDULE FOR TRANSFER STUDENTS
B.S. IN CIVIL ENGINEERING -- GENERAL CIVIL ENGINEERING CONCENTRATION

The following courses should be completed in the freshman and sophomore years by students who transfer to KU's Civil Engineering program from a community college. (Note: there is a 64-hour limit on transfer credits from a community college.) Also shown is a typical schedule of courses in the junior and senior years for transfer students. These schedules may also be used by students who transfer from a four-year college or university that does not offer an accredited program in civil engineering.

| <u>SUGGESTED FRESHMAN AND SOPHOMORE COURSES</u> | <u>Cr. Hr.</u> |
|---|----------------|
| Calculus and Analytic Geometry | 10 |
| Differential Equations and Elementary Linear Algebra | 5 |
| College Physics (<u>Must</u> be Calculus-based Physics) | 8 |
| College Chemistry (<u>Must</u> be equivalent to KU's CHEM 150) | 5 |
| Basic Science Elective | 3 |
| Statics and Dynamics | 5 |
| Computer programming: Visual Basic (recommended), C++, or Fortran | 3 |
| English | 6 |
| Economics | 3 |
| Speech (Speaker-Audience Communication) | 3 |
| Humanities & Social Sciences | 9 |
| Civil Engineering Graphics (AutoCAD)* | 3 |
| Sub-Total First Two Years | 63 |

| <u>Fall Semester</u> | | <u>JUNIOR YEAR</u> | | <u>Spring Semester</u> | |
|------------------------------------|----------------------------------|--------------------|------------------------------------|------------------------------|---------------|
| | | <u>Cr.Hr.</u> | | | <u>Cr.Hr.</u> |
| MATH 526 | Applied Mathematical Stat. | 3 | CE 412/484 | Structural/transp. materials | 3 |
| CE 240 | Surveying | 3 | CE 455 | Hydrology | 3 |
| CE 310 | Strength of Materials | 4 | CE 461 | Structural Analysis | 4 |
| CE 330 | Fluid Mechanics | 4 | CE 480 | Intro. to Transportation Eng | 3 |
| CE 477 | Intro Environmental Engr. & Sci. | 3 | CE 487 | Soil Mechanics | 4 |
| | | 17 | | | 17 |
| | | <u>SENIOR YEAR</u> | | | |
| | | <u>Cr.Hr.</u> | | | <u>Cr.Hr.</u> |
| CE 562/563 | Structural design | 3 | CE 562/563 | Structural design | 3 |
| CE 552/576 | Water design course | 4 | CMGT 357 | Engineering Economics | 3 |
| Civil engineering design elective | | 3 | Civil engineering design elective | | 3 |
| Basic engineering science elective | | 3 | Basic engineering science elective | | 3 |
| General elective | | 4 | General electives | | 6 |
| | | 17 | | | 18 |

TOTAL HOURS REQUIRED FOR DEGREE¹ = 132

* Students who complete an AutoCAD course at another college will need to complete the ArcGIS portion of CE 192 (one credit-hour) at KU by special arrangement with the instructor.

¹ **The Fundamentals of Engineering (F.E.) Exam is also a requirement of this degree program.**