

**COLLEGE OF ENGINEERING
ENGINEERING**

Southern Illinois University Carbondale
Course Substitution List

St. Charles Community College 2006-2008
College Name/Catalog Date

SIUC 2007-08					St. Charles Community College 2006-2008	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	EGR 104 or CDM 104
--	ECE 222 or CS 202	ECE 222 or CS 202	ENGR 222B	--	C++ Programming	CPT 182 ¹ or 186
					JAVA Programming	CPT 287 ²
--	CS 220	--T	--	--	Program with Data Structures	
CE 250	--T	--T	CE 250	CE 250	Statics	EGR 170
CE 251	--	--	ME 261	CE 251	Dynamics	EGR 210
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	ENGR 335	--	Elec. Circuits	EGR 220 + 221
--	ECE 225	ECE 225	--	--	Digital Systems	
CHEM 200 + 201	CHEM 200 + 201	CHEM 200 + 201	CHEM 200 + 201	CHEM 200 + 201	Intro. Chem. Principles	CHM 110 + CHM 113
CHEM 210			CHEM 210	CHEM 210	General & Inorganic Chem.	CHM 111
--	--	--	--	GEOL 220	Physical Geology	PHY 125 + 127
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MAT 180
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MAT 230
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MAT 240
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MAT 250
--	--T	--T	--	--	Intro. to Linear Algebra	MAT 242
PHYS 205A PHYS 255A	PHYS 205A PHYS 255A	PHYS 205A PHYS 255A	PHYS 205A PHYS 255A	PHYS 205A PHYS 255A	Univ. Physics I	PHY 240 + 243
PHYS 205B PHYS 255B	PHYS 205B PHYS 255B	PHYS 205B PHYS 255B	PHYS 205B PHYS 255B	PHYS 205B PHYS 255B	Univ. Physics II	PHY 241 + 244
PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	PHYS 205C ³ + PHYS 255C	--	--	Univ. Physics III	

¹ C++ Programming is Recommended for Mechanical Engineering Majors.

² Electrical and Computer Engineering Majors may take either C++ or JAVA Programming.

³ Third Science Course may be either Chemistry I or Physics III

-- Not Required

--T Not Required But Will Count as Technical Elective

COLLEGE OF ENGINEERING
 ENGINEERING TECHNOLOGY
 Southern Illinois University Carbondale
 Course Substitution List

St. Charles Community College 2006-2008
 College Name/Catalog Date

SIUC 2007-08		St. Charles Community College 2006-2008
Electrical Engineering Technology	Course Title	Course Substitute(s)
ECE 222	C++ Programming	CPT 182 or 186
--T	Engineering Drawing I	CDM 103
--T	Engineering Drawing II	CDM 104
ET 238	Digital Electronics	
ET 245A	Elec. Systems	
--T	Processes Lab	
--T	Statics	EGR 170
--T	Dynamics	EGR 210
ET 304A ¹	Electrical Circuits	
ET 403A	Electronics Technology	
CHEM 140A	Chemistry	CHM 101 + 103
MATH 111	College Algebra & Trigonometry	MAT 171 or MAT 160 + 150
MATH 140	Short Course in Calculus	MAT 210
MATH 282	Intro. to Statistics	MAT 175
PHYS 203A + PHYS 253A	College Physics I	PHY 150 + 153
PHYS 203B + PHYS 253B	College Physics II	PHY 151 + 154

--T Not Required But Will Count as Technical Elective

Revised 6/18/07

COLLEGE OF ENGINEERING
INDUSTRIAL TECHNOLOGY
 Southern Illinois University Carbondale
 Course Substitution List

St. Charles Community College 2006-2008
 College Name/Catalog Date

SIUC 2007-08		St. Charles Community College 2006-2008
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	CDM 103 or 104
IT 208	Manufacturing Processes	CDM 235
IT 270 or CS 200B	Introduction to Business Computing	CPT 103
IT 307 or MATH 140	Short Course in Calculus	MAT 210
MATH 111	College Algebra and Trigonometry	MAT 171 or MAT 160 + 150
PHYS 203A + PHYS 253A	College Physics I	PHY 150 + 153
PHYS 203B + PHYS 253B	College Physics II	PHY 151 + 154
TE	Technical Electives - 29 hours	Up to 29 technical elective hours may be transferred in IT. The technical elective requirement is fulfilled with an A.A.S. Degree.