

COLLEGE OF ENGINEERING
Southern Illinois University Carbondale
 ENGINEERING
 Course Substitution List

Southwestern Illinois College 2007-08
 College Name/Catalog Date

SIUC 2007-08					Southwestern Illinois College 2007-08	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	GE 103
--	ECE 222 or CS 202	ECE 222 or CS 202	ENGR 222B	--	C++ Programming	MATH 170 or CIS 250 ¹
--	CS 220	--T	--	--	JAVA Programming	CIS 187 ²
CE 250	--T	--T	CE 250	CE 250	Statics	PHYS 263
CE 251	--T	--T	ME 261	CE 251	Dynamics	PHYS 264
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235 ³	ECE 235 ³	ENGR 335	--	Elec. Circuits	GE 271
--	ECE 225	ECE 225	--	--	Digital Systems	
CHEM 200 + CHEM 201	CHEM 200 ⁴ + CHEM 201	CHEM 200 ⁴ + CHEM 201	CHEM 200 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHEM 105
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHEM 106
--	--	--	--	GEOL 220	Physical Geology	ES 102
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 203
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 204
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 205
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 290
--	--T	--T	--	--	Intro. to Linear Algebra	MATH 292
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 204
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 205
PHYS 205C + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	PHYS 205C ⁴ + PHYS 255C	--	--	Univ. Physics III	PHYS 206

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

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

³ One hour of Laboratory in Electric Circuits will be required at SIUC.

⁴ Third science course may be Chemistry I or Physics III for Electrical and Computer Engineering Majors.

-- Not required

--T Not required but will count as Technical Elective

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

Southwestern Illinois College 2007-08
 College Name/Catalog Date

SIUC 2007-08	Southwestern Illinois College 2007-08	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CIS 250 or MATH 170
--T	Engineering Drawing I	CAD 101 or GE 103
--T	Engineering Drawing II	CAD 220
ET 238	Digital Electronics	EET 200 + 210
ET 245A	Elec. Systems	EET 111
--T	Processes Lab	IDM 112
--T	Statics	PHYS 263
--T	Dynamics	PHYS 264
ET 304A ¹	Electrical Circuits	GE 271
--T	Strength of Materials	
CHEM 140A	Chemistry	CHM 101
MATH 108 + 109	College Algebra & Trigonometry	MATH (112 + 114)
MATH 140	Short Course in Calculus	MATH 213
MATH 282	Statistics	MATH 191
PHYS 203A + PHYS 253A	College Physics I	PHY 151
PHYS 203B + PHYS 253B	College Physics II	PHY 152

¹ One hour of Laboratory in Electric Circuits will be required at SIUC.

--T Not required but will count as Technical Elective

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

Southwestern Illinois College 2007-08
 College Name/Catalog Date

SIUC 2007-08		Southwestern Illinois College 2007-08
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	CAD 120
IT 208	Manufacturing Processes	IDM 112
IT 270 or CS 200B	Introduction to Business Computing	CIS 183
IT 307 or MATH 140	Short Course in Calculus	MATH 213
MATH 111	College Algebra and Trigonometry	MATH 112 & 114
PHYS 203A + PHYS 253A	College Physics I	PHYS 151
PHYS 203B + PHYS 253B	College Physics II	PHYS 152
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.