

**COLLEGE OF ENGINEERING  
ENGINEERING**

Southern Illinois University Carbondale  
Course Substitution List

Sauk Valley Community College 2006-08  
College Name/Catalog Date

SIUC 2006-07					Sauk Valley Community College 2006-08	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	EGR 103 or DFT 208
--	ECE 222 or CS 202	ECE 222 or CS 202	ENGR 222B	--	C++ Programming	CIS 206 or 207 <sup>1</sup>
--	CS 220	--T	--	--	JAVA Programming	CIS 122 or 234 <sup>2</sup>
--	CS 220	--T	--	--	Prog. with Data Structures	
CE 250	--T	--T	CE 250	CE 250	Statics	PHY 221
ME 261	--	--	ME 261	ME 261	Dynamics	PHY 222
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	ENGR 335	ENGR 335	Elec. Circuits	PHY 246 + 247
--	ECE 225	ECE 225	--	--	Digital Systems	
CHEM 200 + CHEM 201	CHEM 200 <sup>3</sup> + CHEM 201	CHEM 200 <sup>3</sup> + CHEM 201	CHEM 200 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHE 105
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHE 106
--	--	--	--	GEOL 220	Physical Geology	
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MAT 203
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MAT 204
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MAT 205
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MAT 211
--	--T	--T	--	--	Intro. to Linear Algebra	MAT 231
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHY 211
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHY 212
PHYS 205C + PHYS 255C	PHYS 205C <sup>3</sup> + PHYS 255C	PHYS 205C <sup>3</sup> + PHYS 255C	--	--	Univ. Physics III	PHY 213

<sup>1</sup> C++ Programming is recommended for Computer, Electrical, and Mechanical Engineering Majors.

<sup>2</sup> JAVA Programming may substitute for C++ Programming for Electrical and Computer Engineering Majors.

<sup>3</sup> 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

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SIUC 2006-07	Sauk Valley Community College 2006-08	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CIS 206 <b>or</b> CIS 207
--T	Engineering Drawing I	EGR 103 <b>or</b> DFT 104
--T	Engineering Drawing II	DFT 209
ET 238	Digital Electronics	EET 215
ET 245A	Elec. Systems	EET 106
--T	Processes Lab	IND 125
--T	Statics	PHY 221
--T	Dynamics	PHY 222
ET 304A	Electrical Circuits	PHY 246 + 247
--T	Strength of Materials	MET 212
CHEM 140A	Chemistry	CHE 103
MATH 111	College Algebra & Trigonometry	MAT 121 + 122
MATH 140	Short Course in Calculus	MAT 221
MATH 282	Intro. to Statistics	MAT 240
PHYS 203A + PHYS 253A	College Physics I	PHY 201
PHYS 203B + PHYS 253B	College Physics II	PHY 202

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

Sauk Valley Community College 2006-08  
 College Name/Catalog Date

SIUC 2006-07		Sauk Valley Community College 2006-08
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	DFT 104
IT 208	Manufacturing Processes	IND 125
IT 270 <b>or</b> CS 200B	Introduction to Business Computing	IND 105 <b>or</b> CIS 109
IT 307 <b>or</b> MATH 140	Short Course in Calculus	MAT 221
MATH 111	College Algebra and Trigonometry	MAT 121 + 122
PHYS 203A + PHYS 253A	College Physics I	PHY 201
PHYS 203B + PHYS 253B	College Physics II	PHY 202
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.