

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Shawnee Community College 2007-09

College Name/Catalog Date

SIUC 2008-09					Shawnee Community College 2007-09	
Civil Engineering	Computer Engineering	Electrical Engineering	Mechanical Engineering	Mining Engineering	Course Title	Course Substitute(s)
ENGR 102	--	--	ENGR 102	ENGR 102	Eng. Graphics	EGR 117 <b>or</b> DRA 128
--	ECE 222 <b>or</b> CS 202	ECE 222 <b>or</b> CS 202	ENGR 222B	--	C++ Programming <sup>1</sup>	EGR 119 <b>or</b> COM 231 <sup>1</sup>
--				--	JAVA Programming <sup>2</sup>	COM 239
	CS 220	--T	--	--	Prog. with Data Structures	
CE 250 <b>or</b> ENGR 260A		--T	ENGR 260A	CE 250 <b>or</b> ENGR 260A	Statics	EGR 219
CE 251 <b>or</b> ENGR 260B	--T	--	ME 261 <b>or</b> ENGR 260B	CE 251 <b>or</b> Engr 260B	Dynamics	EGR 214
ENGR 311	--T	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235 <sup>3</sup>	ECE 235 <sup>3</sup>	ENGR 335	--	Elec. Circuits	EGR 215 <sup>3</sup>
--	ECE 225 <sup>3</sup>	ECE 225 <sup>3</sup>	--	--	Digital Systems	EGR 213 <sup>3</sup>
CHEM 200 + CHEM 201	CHEM 200 <sup>4</sup> + CHEM 201	CHEM 200 <sup>4</sup> + CHEM 201	CHEM 200 + CHEM 201	CHEM 200 + CHEM 201	Intro. Chem. Principles	CHE 114
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHE 115
--	--	--	--	GEOL 220	Physical Geology	GEO 213
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MAT 117
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MAT 211
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MAT 212
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MAT 213
--	--T	--T	--	--	Intro. to Linear Algebra	
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 216
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	PHYS 217
PHYS 205C + PHYS 255C	PHYS 205C <sup>4</sup> + PHYS 255C	PHYS 205C <sup>4</sup> + PHYS 255C	--	--	Univ. Physics III	

<sup>1</sup> "C++" Programming is recommended for Mechanical Engineering Majors.

<sup>2</sup> Computer Engineering and Electrical Engineering Majors may take either C or JAVA Programming.

<sup>3</sup> One hour of Laboratory will be required for Electrical and Computer Engineering Majors.

<sup>4</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 at Carbondale  
 Course Substitution List

Shawnee Community College 2007-09  
 College Name/Catalog Date

SIUC 2008-09		Shawnee Community College 2007-09
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C Programming	EGR 119 <b>or</b> COM 231
ET 238	Digital Electronics	ELT 125 <b>or</b> 236
ET 245A	Elec. Systems	ELT 129
--T	Processes Lab	
--T	Statics	EGR 219
--T	Dynamics	EGR 214
ET 304A <sup>1</sup>	Electrical Circuits	EGR 215
--T	Strength of Materials	
CHEM 140A	Chemistry	PHS 111
MATH 108 + 109	College Algebra & Trigonometry	MAT (116 + 118) <b>or</b> 115
MATH 150	Calculus I	MAT 117
MATH 250	Calculus II	MAT 211
PHYS 203A + PHYS 253A	College Physics I	PHY 216 <b>or</b> 116
PHYS 203B + PHYS 253B	College Physics II	PHY 217 <b>or</b> 117

<sup>1</sup> One hour of Laboratory will be required at SIUC.  
 --T Not required but will count as Technical Elective

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

Shawnee Community College 2007-09  
College Name/Catalog Date

SIUC 2008-09		Shawnee Community College 2007-09
Industrial Technology	Course Title	Course Substitute(s)
IT 110	Geometric Dimensioning & Tolerancing	--
IT 208	Manufacturing Processes	
IT 270 <b>or</b> CS 200B	Introduction to Business Computing	COM 111
IT 307 <b>or</b> MATH 140	Short Course in Calculus	MAT 215
MATH 111	College Algebra and Trigonometry	MAT (116 + 118) <b>or</b> 115
PHYS 203A + PHYS 253A	College Physics I	PHY 216 <b>or</b> 116 <b>or</b> PHS 112
PHYS 203B + PHYS 253B	College Physics II	PHY 217 <b>or</b> 117
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.