

COLLEGE OF ENGINEERING

ENGINEERING

Southern Illinois University at Carbondale

Course Substitution List

Heartland Community College 2006-08  
College Name/Catalog Date

SIUC 2006-07					Heartland 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	ENGR 110
--	--	--	ENGR 222B	--	C++ Programming <sup>1</sup>	CSCI 171 <b>or</b> 221
--	ECE 222	ECE 222	--	--	JAVA Programming <sup>2</sup>	CSCI 224
--	CS 220		--	--	Program with Data Structures	CSCI 240
CE 250	--T	--T	CE 250	CE 250	Statics	ENGR 271
ME 261	--	--	ME 261	ME 261	Dynamics	ENGR 272
CE 350A	--	--	CE 350A	CE 350A	Mechanics of Deform. Bodies	
--	ECE 235	ECE 235	ENGR 335	--	Elec. Circuits	
--	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 161
CHEM 210	--T	--T	CHEM 210	CHEM 210	General & Inorganic Chem.	CHE 162
--	--	--	--	GEOL 220	Physical Geology	EASC 161
MATH 150	MATH 150	MATH 150	MATH 150	MATH 150	Calculus I	MATH 161
MATH 250	MATH 250	MATH 250	MATH 250	MATH 250	Calculus II	MATH 162
MATH 251	MATH 251	MATH 251	MATH 251	MATH 251	Calculus III	MATH 163
MATH 305	MATH 305	MATH 305	MATH 305	MATH 305	Diff. Equations	MATH 272
--	--T	--T	--	--	Intro. to Linear Algebra	MATH 271
PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	PHYS 205A + PHYS 255A	Univ. Physics I	PHYS 171 + 172 + 173 + 174
PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	PHYS 205B + PHYS 255B	Univ. Physics II	
--T	PHYS 205C + PHYS 255C	PHYS 205C <sup>3</sup> + PHYS 255C	--	--	Univ. Physics III	

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

<sup>2</sup> JAVA Programming is recommended for Electrical and Computer Engineering Majors.

<sup>3</sup> 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 at Carbondale  
 Course Substitution List

Heartland Community College 2006-08  
 College Name/Catalog Date

SIUC 2006-07	Heartland Community College 2006-08	
Electrical Engineering Technology	Course Title	Course Substitute(s)
ENGR 222B	C++ Programming	CSCI 171 <b>or</b> 221
--T	Engineering Drawing I	CAD 101
--T	Engineering Drawing II	
ET 238	Digital Electronics	ELTC 206
ET 245A	Elec. Systems	ELTC 102 + 103
--T	Processes Lab	
--T	Statics	ENGR 271
--T	Dynamics	ENGR 272
ET 304A	Electrical Circuits	
--T	Strength of Materials	
CHEM 140A	Chemistry	CHEM 161 <b>or</b> 120
MATH 111	College Algebra & Trigonometry	MATH 109 + 128
MATH 140	Short Course in Calculus	MATH 151
MATH 282	Intro. to Statistics	MATH 142
PHYS 203A + PHYS 253A	College Physics I	PHYS 161
PHYS 203B + PHYS 253B	College Physics II	PHYS 162

--T Not Required But Will Count as Technical Elective

Revised 11/1/06

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

Heartland Community College 2006-08  
 College Name/Catalog Date

SIUC 2006-07		Heartland Community College 2006-08
Industrial Technology	Course Title	Course Substitute(s)
IT 105	Computer-Aided Drafting	ENGR 110
IT 208	Manufacturing Processes	MFTG 110
IT 270 <b>or</b> CS 200B	Introduction to Business Computing	BUSN 130
IT 307 <b>or</b> MATH 140	Short Course in Calculus	MATH 151
MATH 111	College Algebra and Trigonometry	MATH (109 + 128)
PHYS 203A + PHYS 253A	College Physics I	PHYS 161
PHYS 203B + PHYS 253B	College Physics II	PHYS 162
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.